

List of All Chemicals

P Aloe vera (Aloeaceae)

Common name(s)

Bitter Aloes; Aloe

How used

GRAS

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical | Part <input type="button" value="All"/> | Low PPM | High PPM | StdDev | *Reference |
|--|--|------------|-------------|--------|---|
| -D-GLUCITOL | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| 1,1,2-TRIPHENYL-CYCLOPROPANE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 1,1-BIS-(2-HYDROXY-3,5-DIMETHYL-PHENYL)-2-METHYL-PROPANE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 1,8-DIHYDROXYANTHRACENE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| 10-HYDROXYALOIN-A | Juice | -- | 3535.0 | | Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. Phtochemistry, 45(7): 1519-1522. |
| 10-HYDROXYALOIN-B | Juice | -- | 2172.0 | | Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. Phtochemistry, 45(7): 1519-1522. |
| 15-METHYL-HEXADECANOIC-ACID | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 2(3H)-BENZOTHAZOLONE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 2-METHYL-2-PHYTYL-6-CHROMANOL | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| 3,3'-BIS-P-MENTHANE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 4-HYDROXY-3,5-DI-TERT-BUTYL-BENZALDEHYDE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| 7-HYDROXY-6'-O-P-COUMAROYL-ALOIN-A | Leaf | -- | -- | | Rauwald, H. W. 1987. New Hydroxyaloins: The 'Periodate-Positive' Substance from Cape Aloes and Cinnamoyl Esters from Curacao Aloes. Pharm. Weekbl. (Sci. Ed.) 9(4): 215. |
| 7-HYDROXY-6'-O-P-COUMAROYL-ALOIN-B | Leaf | -- | -- | | Rauwald, H. W. 1987. New Hydroxyaloins: The 'Periodate-Positive' Substance from Cape Aloes and Cinnamoyl Esters from Curacao Aloes. Pharm. Weekbl. (Sci. Ed.) 9(4): 215. |
| 7-HYDROXY-8-O-METHYL-ALOIN-A | Juice | -- | 2143.0 | | Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. Phtochemistry, 45(7): 1519-1522. |
| 7-HYDROXY-8-O-METHYL-ALOIN-B | Juice | -- | 1608.0 | | Ikamura, N., Hine, N., Harada, S., Fujioka, T., Mihashi, K., Nishi, M., Miyahara, K., Yagi, A. 1997. Diastereomeric C-Glucosylanthrones of Aloe vera Leaves. Phtochemistry, 45(7): 1519-1522. |
| 7-HYDROXY-CHROMONE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| 7-HYDROXYALOIN | Plant | -- | -- | | Rizk, A.F.M. and Al-Nowaihi, A.S., The Phytochemistry of the Horticultural Plants of Qatar, Scientific and Applied Research Centre, University of Qatar. |
| 8-C-GLUCOSYL-(S)-ALOESOL | Juice | -- | 50.9 | | Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. Phytochemistry, 45(7): 1511-1513. |

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|--|-------|----|------|--|
| 8-C-GLUCOSYL-7-O-METHYL-(S)-ALOESOL | Leaf | -- | -- | Okamura, N., Asai, M., Hine, N., Yagi, A. 1996. High-Performance Liquid Chromatographic Determination of Phenolic Compounds in Aloe Species. <i>J. Chromatogr.</i> 746(2): 225-231. |
| 8-C-GLUCOSYL-7-O-METHYL-(S)-ALOESOL | Juice | -- | -- | Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513. |
| 8-C-GLUCOSYL-7-O-METHYL-ALOEDIOL | Juice | -- | 71.6 | Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513. |
| 8-C-GLUCOSYLCHROMONE-ALOERESIN-B | Plant | -- | -- | Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp. |
| 8-METHYL-TOCOL | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| 8-[C-BETA-D-[2-O-(TRANS)-CINNA MOYL]-GLUCOPYRANOSYL]-2-[(R)-2-HYDROXYPROPYL]-7-METHOXY-5-METHYL-CHROMONE | Leaf | -- | 13.1 | Hutter, J. A., Salman, M., Svinoha, W. B., Satsangi, N., Williams, R. F., Streeper, R. T., Weintraub, S. T. 1996. Antiinflammatory C-Glucosyl Chromone from Aloe barbadensis. <i>J. Nat. Prod.</i> , 59(5): 541-543. |
| 9-PROPANOYL-METHOXY-METHYL-PHENANTHRENE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| ACEMANNAN | Leaf | -- | -- | * |

Activities (14)

| | |
|------------------------|---|
| AntiHIV 1 g/day | |
| AntiIBD | |
| Antiherpetic 1 g/day | |
| Antileukemic | American Pharmaceutical Association. 1998. In ed. APA's Guide to Natural Medicines. |
| Antimeasles 1 g/day | |
| Antiretroviral | American Pharmaceutical Association. 1998. In ed. APA's Guide to Natural Medicines. |
| Antirhinitic 1 g/day | |
| Antitracheitic 1 g/day | |
| Antiviral | |
| Fungicide | |
| Immunostimulant | |
| Immunosuppressant | |
| Lymphocytogenic | |
| Pesticide | |

| | | | | |
|-----------|-------|----|----|---|
| ACEMANNAN | Juice | -- | -- | Lee, S. Y., Ryu, I. W., Shim, C. S. 1997. Purification and Characterization of Bioactivity Compound Acemannan from Aloe vera. <i>Korean J. Pharmacog.</i> , 28(2): 65-71. |
|-----------|-------|----|----|---|

Activities (14)

| | |
|------------------------|---|
| AntiHIV 1 g/day | |
| AntiIBD | |
| Antiherpetic 1 g/day | |
| Antileukemic | American Pharmaceutical Association. 1998. In ed. APA's Guide to Natural Medicines. |
| Antimeasles 1 g/day | |
| Antiretroviral | American Pharmaceutical Association. 1998. In ed. APA's Guide to Natural Medicines. |
| Antirhinitic 1 g/day | |
| Antitracheitic 1 g/day | |
| Antiviral | |
| Fungicide | |
| Immunostimulant | |
| Immunosuppressant | |
| Lymphocytogenic | |
| Pesticide | |

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|---------|------|----|---------|------|---|
| ALANINE | Leaf | -- | 15769.0 | 0.74 | * |
|---------|------|----|---------|------|---|

Activities (3)

| | |
|-------------------|---|
| Antioxidant | Larson, R.A. 1987. Review Article Number 30. <i>The Antioxidants of Higher Plants. Phytochemistry.</i> 27: 969-978. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Oxidant | Larson, R.A. 1987. Review Article Number 30. <i>The Antioxidants of Higher Plants. Phytochemistry.</i> 27: 969-978. |

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|---|--|-----|------|---|
| ALBUMIN | Leaf | 1.0 | 5.0 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| ALDOPENTOSE | Leaf | -- | -- | Wealth of India. |
| ALEOSONE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ALIINASE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ALOCUTIN-A | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (5) | | | | |
| Analgesic | | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Cancer-Agglutinator | | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Complementary-Activator | | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Hemagglutinator | | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Lymphogenic | | | | Pakistan Encyclopedia Planta Medica. 1986. |
| ALOE-BARBENDON | Root | -- | 9.0 | Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. <i>Phytochemistry</i> , 45(6): 1279-1282. |
| ALOE-CHRYSONE | Leaf | -- | -- | Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. <i>Phytochemistry</i> , 45(6): 1279-1282. |
| ALOE-EMODIN | Juice | -- | -- | * |
| Activities (24) | | | | |
| Antibacterial MIC=2-64 ug/ml | | | | |
| Antiherpetic | | | | |
| Antileukemic | | | | |
| Antisalmonella | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. | | | |
| Antiseptic MIC=2-64 ug/ml | | | | |
| Antistaphylococccic MIC=2-64 ug/ml | | | | |
| Antitumor 1 ug/mL | | | | |
| Antiviral | | | | |
| Arylamine-N-Acetyltransferase-Inhibitor | | | | |
| Calcium-Antagonist (strong activity) | | | | |
| Candidicide MIC=25-250 ug/ml | | | | |
| Cathartic | Merck 11th Edition | | | |
| Cytotoxic 20 ppm | | | | |
| Estrogenic | | | | |
| Fungicide MIC=25-250 ug/ml | | | | |
| Genotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Laxative | | | | |
| Mutagenic | | | | |
| Pesticide | | | | |
| Purgative ED50=>59.6 mg/kg orl mus | | | | |
| Termitifuge | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. | | | |
| Topoisomerase-II-Inhibitor 1 mM | Muller, S. O., Eckert, I., Lutz, W. K. Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? <i>Mutat Res</i> , 371: 165-173. | | | |
| Topoisomerase-II-Inhibitor IC50=741 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. <i>Biochimica & Biophysica Acta</i> , 1428: 406-414. | | | |
| Tuberculostatic | Pakistan Encyclopedia Planta Medica. 1986. | | | |
| ALOE-EMODIN | Leaf | -- | 45.4 | * |

Activities (24)

| | |
|---|---|
| Antibacterial MIC=2-64 ug/ml | |
| Antiherpetic | |
| Antileukemic | |
| Antisalmonella | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antiseptic MIC=2-64 ug/ml | |
| Antistaphylococcic MIC=2-64 ug/ml | |
| Antitumor 1 ug/mL | |
| Antiviral | |
| Arylamine-N-Acetyltransferase-Inhibitor | |
| Calcium-Antagonist (strong activity) | |
| Candidicide MIC=25-250 ug/ml | |
| Cathartic | Merck 11th Edition |
| Cytotoxic 20 ppm | |
| Estrogenic | |
| Fungicide MIC=25-250 ug/ml | |
| Genotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Laxative | |
| Mutagenic | |
| Pesticide | |
| Purgative ED50=>59.6 mg/kg orl mus | |
| Termitifuge | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Topoisomerase-II-Inhibitor 1 mM | Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? Mutat Res, 371: 165-173. |
| Topoisomerase-II-Inhibitor IC50=741 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414. |
| Tuberculostatic | Pakistan Encyclopedia Planta Medica. 1986. |

ALOE-EMODIN

Plant

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Activities (24)

Antibacterial MIC=2-64 ug/ml

Antiherpetic

Antileukemic

Antisalmonella

Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Antiseptic MIC=2-64 ug/ml

Antistaphylococccic MIC=2-64 ug/ml

Antitumor 1 ug/mL

Antiviral

Arylamine-N-Acetyltransferase-Inhibitor

Calcium-Antagonist (strong activity)

Candidicide MIC=25-250 ug/ml

Cathartic

Merck 11th Edition

Cytotoxic 20 ppm

Estrogenic

Fungicide MIC=25-250 ug/ml

Genotoxic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Laxative

Mutagenic

Pesticide

Purgative ED50=>59.6 mg/kg orl mus

Termitifuge

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Topoisomerase-II-Inhibitor 1 mM

Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? Mutat Res, 371: 165-173.

Topoisomerase-II-Inhibitor IC50=741 uM/ml

Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414.

Tuberculostatic

Pakistan Encyclopedia Planta Medica. 1986.

| | | | | |
|-----------------------|-------|----|----|---|
| ALOE-EMODIN-ANTHRANOL | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ALOE-GLYCOPROTEIN | Juice | -- | -- | Yagi, A., Egusa, T., Arase, M., Tanabe, M., Tsuji, H. 1997. Isolation and Characterization of the Glycoprotein Fraction with Proliferation-Promoting Activity on Human and Hamster Cells in Vitro from Aloe vera Gel. Planta Medica, 63(1):18-21. |
| ALOE-POLYSACCHARIDE | Leaf | -- | -- | Ross, S. A., El Sohly, M. A., Wilkins, S. P. 1997. Quantitative Analysis of Aloe vera Mucilaginous Polysaccharide in Commercial Aloe vera Products. J. Aoac. Int. 80(2): 455-457. |
| ALOEFERON | Juice | -- | -- | Madis, V. H., Omar, M. M., Madis, V. 1984. Aloeferon Isolation Manufacture, and Plliciations. Patent-US-4,861,761: 8 pp. |
| ALOENIN | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ALOERESIN-C | Juice | -- | -- | Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from Aloe barbadensis (Ph. Eur. 1997). Pharmazie, 52(12): 962-964. |
| ALOERESIN-D | Juice | -- | -- | Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from Aloe barbadensis (Ph. Eur. 1997). Pharmazie, 52(12): 962-964. |
| ALOERESIN-E | Leaf | -- | -- | Okamura, N., Asai, M., Hine, N., Yagi, A. 1996. High-Performance Liquid Chromatographic Determination of Phenolic Compounds in Aloe Species. J. Chromatogr. 746(2): 225-231. |
| ALOERESIN-F | Juice | -- | -- | Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from Aloe barbadensis (Ph. Eur. 1997). Pharmazie, 52(12): 962-964. |
| ALOESIN | Plant | -- | -- | * |

Activities (2)

Purgative

Sunscreen

Jim Duke's personal files.

| | | | | | |
|---------|-------|----|----|--|---|
| ALOESIN | Juice | -- | -- | | Rauwald, H. W., Maucher, R., Niyonizima, D. D. 1997. Three 8-C-glucosyl-5-methyl-chromones from Aloe barbadensis (Ph. Eur. 1997). Pharmazie, 52(12): 962-964. |
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Activities (2)

| | |
|-----------|----------------------------|
| Purgative | |
| Sunscreen | Jim Duke's personal files. |

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|---------|------|----|----|---|--|
| ALOESIN | Leaf | -- | -- | * | |
|---------|------|----|----|---|--|

Activities (2)

| | |
|-----------|----------------------------|
| Purgative | |
| Sunscreen | Jim Duke's personal files. |

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|---------|-------|----|----|---|--|
| ALOESOL | Plant | -- | -- | * | |
|---------|-------|----|----|---|--|

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|----------|-------|----|----|---|--|
| ALOESONE | Plant | -- | -- | * | |
|----------|-------|----|----|---|--|

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|--------------|-------|----|----|--|--|
| ALOETIC-ACID | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|--------------|-------|----|----|--|--|

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|---------|-------|----|----|--|--|
| ALOETIN | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|---------|-------|----|----|--|--|

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|----------------|-------|----|----|--|--|
| ALOETINIC-ACID | Plant | -- | -- | | J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991. |
|----------------|-------|----|----|--|--|

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|-------|------|----|----|---|--|
| ALOIN | Leaf | -- | -- | * | |
|-------|------|----|----|---|--|

Activities (12)

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|----------------------------------|---|
| Allergenic? | |
| Antifertility 62.5 mg/kg/day | |
| Antiherpetic | |
| Antispermatogetic 62.5 mg/kg/day | |
| Antiviral | |
| Cholagogue | Pakistan Encyclopedia Planta Medica. 1986. |
| Hypothermic | Pakistan Encyclopedia Planta Medica. 1986. |
| Laxative 13-60 mg/man | Martindale's 28th |
| Peristaltic | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| Pesticide | |
| Purgative | Merck 11th Edition |
| Uricosuric | Pakistan Encyclopedia Planta Medica. 1986. |

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|---------|------|----|------|--|--|
| ALOIN-A | Leaf | -- | 31.8 | | Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167. |
|---------|------|----|------|--|--|

| | | | | | |
|---------|------|----|------|--|--|
| ALOIN-B | Leaf | -- | 31.8 | | Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167. |
|---------|------|----|------|--|--|

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|----------|-------|----|----|--|--|
| ALOINOSE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|----------|-------|----|----|--|--|

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|--------------|-------|----|----|--|--|
| ALOINOSIDE-A | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|--------------|-------|----|----|--|--|

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|--------|-------|----------|----------|--|---|
| ALOINS | Plant | 270000.0 | 300000.0 | | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
|--------|-------|----------|----------|--|---|

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|-----------------|-------|----|----|--|--|
| ALPHA-CELLULOSE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|-----------------|-------|----|----|--|--|

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|----------|------|----|------|-------|---|
| ALUMINUM | Leaf | -- | 22.0 | -0.76 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
|----------|------|----|------|-------|---|

Activities (5)

| | |
|-----------------|--|
| Antisilicotic | Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987. |
| Antivaginitic | Martindale's 28th |
| Candidicide | Martindale's 28th |
| Encephalopathic | Martindale's 29th |
| Pesticide | |

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|---------|------|----|------|--|---|
| AMYLASE | Leaf | -- | 20.0 | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
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Activities (1)

| | |
|----------|--|
| Sedative | |
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|-------------------------|-------|----|----------|--|
| ANTHRACENE | Plant | -- | -- | * |
| ANTHRANOL | Juice | -- | -- | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-. |
| ANTHRANOL | Plant | -- | -- | * |
| ANTHRANOL | Leaf | -- | -- | Mary, N. Y., Christensen, B. V., Beal, J. L. 1956. A Paper Chromatographic Study of Aloe, Aloin and Cascara sagrada. J. Amer. Pharm. Ass. Sci. Ed., 45: 229-232. |
| ANTHRANOLS | Plant | -- | -- | * |
| ANTHRAQUINONE-GLYCOSIDE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ANTHRAQUINONES | Plant | -- | 300000.0 | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |

Activities (6)

| | |
|----------------|--|
| Antilithic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Bird-Repellent | Merck 11th Edition |
| Carcinogenic | |
| Laxative | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Litholytic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Toxic | Jim Duke's personal files. |

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|-----------------------------|-------|----|----|--|
| ANTHROL | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| APOISE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ARABINAN | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| ARABINOSE | Leaf | -- | -- | * |
| ARABINOSE | Plant | -- | -- | * |
| ARACHIDIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| ARACHIDONIC-ACID | Shoot | -- | -- | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |

Activities (12)

| | |
|-----------------------------|--|
| 5-Alpha-Reductase-Inhibitor | |
| Antidermatitic | Merck 11th Edition |
| Antieczemic | Merck 11th Edition |
| Antileukotriene-B4 | |
| Antipsoriatic | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Coagulant | |
| Hepatoprotective | |
| Immunostimulant | |
| Insulinogenic | Economic & Medicinal Plant Research, 6: 170. |
| Myocontractant | |
| Pyrogenic 100 ug/kg rbt | Kandasamy, S. B. 1977. Central Effect of 5,8,11,14-eicosatetraenoic Acid (Arachidonic Acid) on the Temperature in the Conscious Rabbit. Experientia, 33: 1626. |

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|------------------|-------|----|----|---|
| ARACHIDONIC-ACID | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|------------------|-------|----|----|---|

Activities (12)**5-Alpha-Reductase-Inhibitor**

Antidermatitic Merck 11th Edition

Antieczemic Merck 11th Edition

Antileukotriene-B4

Antipsoriatic Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Coagulant**Hepatoprotective****Immunostimulant**

Insulinogenic Economic & Medicinal Plant Research, 6: 170.

Myocontractant

Pyrogenic 100 ug/kg rbt Kandasamy, S. B. 1977. Central Effect of 5,8,11,14-eicosatetraenoic Acid (Arachidonic Acid) on the Temperature in the Conscious Rabbit. Experientia, 33: 1626.

ARACHIDONIC-ACID

Plant -- --

Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

Activities (12)**5-Alpha-Reductase-Inhibitor**

Antidermatitic Merck 11th Edition

Antieczemic Merck 11th Edition

Antileukotriene-B4

Antipsoriatic Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Coagulant**Hepatoprotective****Immunostimulant**

Insulinogenic Economic & Medicinal Plant Research, 6: 170.

Myocontractant

Pyrogenic 100 ug/kg rbt Kandasamy, S. B. 1977. Central Effect of 5,8,11,14-eicosatetraenoic Acid (Arachidonic Acid) on the Temperature in the Conscious Rabbit. Experientia, 33: 1626.

ARGININE

Leaf -- 78216.0 4.04 *

Activities (14)

Antidiabetic? Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.

Antiencephalopathic Martindale's 29th

Antihepatic Martindale's 29th

Antihypertensive**Antiimpotence**

Antiinfertility 4 g/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antioxidant?**Aphrodisiac 3 g/day****Diuretic**

Hypoammonemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

NO-Genic**Pituitary-Stimulant**

Spermigenic 4 g/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Vasodilator**ASCORBIC-ACID**

Leaf -- 6260.0 0.14

Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities (112)

Acidulant FEMA 6,000 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Aldose-Reductase-Inhibitor Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

Analgesic 5-10 g/day**Angiotensin-Receptor-Blocker**

AntiAGE 2,000 mg/day Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95

AntiCFS 500-1,000 mg**AntiCTS 1,000 mg 3x/day**

AntiCrohn's 50-100 mg/day/orl/man Martindale's 29th

| | |
|--|--|
| AntiLyme 500-2,000 mg | |
| AntiRaynaud's 500 mg 1-2x/day | |
| Antiaaggregant | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiaging 400 mg/day | |
| Antiallergic | |
| Antialzheimeran 2,000-6,000 mg/day | |
| Antiarthritic 0.2-1 g/day | |
| Antiasthmatic 1,000 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiatherosclerotic | |
| Antibacterial | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticataract 350 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticataract 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Anticataract 1 g 3x/day | |
| Anticervicaldysplasic 1,000-2,000 mg/day | |
| Anticlimacteric 500-5,000 mg/day | |
| Anticold 1-2 g/man/day | |
| Antidecubic 500 mg/man/2x/day | Martindale's 28th |
| Antidementia | |
| Antidepressant 2,000 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antidiabetic | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidote (Aluminum) | Economic & Medicinal Plant Research, 6: 189. |
| Antidote (Cadmium) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidote (Paraquat) | Martindale's 28th |
| Antieczemic 3.5-5 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiedemic 1 g/man/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiencephalitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiendometriotic 2,000 mg/day | |
| Antifatigue 500-1,000 mg | |
| Antifibrotic 1,000-2,000 mg | |
| Antigallstone 1,000-3,000 mg/day | |
| Antigastritic | |
| Antigingivitic | |
| Antiglaucomic 2 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antihangover 1,000 mg | |
| Antihemorrhagic 1 g/man/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihepatitic 2-6 g/man/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihepatotoxic | Economic & Medicinal Plant Research, 6: 189. |
| Antiherpetic 1-5 g/day | |
| Antihistaminic 2 g/day orl man | |
| Antihypertensive | |
| Antiinfertility 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiinflammatory | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antileptic 1.5 g/man/day | Martindale's 28th |
| Antilithic 1,000-3,000 mg/day | |
| Antimaculitic | |
| Antimeasles | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antimenopausal 500-5,000 mg/day | |
| Antimigraine | Martindale's 29th |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antineuramidase | |
| Antinitrosic 1 g/man/day | Martindale's 28th |
| Antioesity 1 g 3x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiorchitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiosteoarthritis 1 g 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiosteoporotic 500 mg/day | |
| Antioxidant 100 ppm | |
| Antiparkinsonian 1 g 2-3x/day | |
| Antiparotitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiperiodontitic 1 g 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |

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| Antipneumonic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antipodriac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antipoliomyelitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antipyretic | Economic & Medicinal Plant Research, 6: 189. |
| Antiradicular | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiretinotic | |
| Antirheumatic | |
| Antirhinitic 1,000 mg 3x/day | |
| Antiscorbutic 10 mg/man/day | Martindale's 28th |
| Antiseptic MIC=3.3-217 mg/ml | Martindale's 28th |
| Antiseptic 4-8 g/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antishingles | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antispasmodic 500-5,000 mg/day | |
| Antistress 500-1,000 mg | |
| Antisyndrome-X 1-4 g/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitumor (Gastric) | |
| Antitumor (Lung) | |
| Antiulcer | |
| Antiviral 1-5 g/day | |
| Apoptotic 1-10 mM | |
| Asthma-preventive 1,000 mg/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Adrenergic Receptor Blocker | |
| Beta-Glucuronidase-Inhibitor 1.5 g/day/man | |
| Calcium-Antagonist | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Cold-preventive 1-2 g/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Collagenic | |
| Detoxicant | |
| Diuretic 700 mg/man/orl | |
| Fistula-Preventive | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypocholesterolemic 300-1,000 mg/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Hypoglycemic | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypotensive 1,000 mg/man/day | |
| Immunomodulator | |
| Immunostimulant | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Interferonogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Lithogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Mucolytic 1 g/woman/day | Martindale's 28th |
| Pesticide | |
| Uricosuric 4 g/man/day | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Urinary-Acidulant | Martindale's 29th |
| Vasodilator | |
| Vulnerary | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

ASPARAGINE Leaf -- -- Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.

Activities (2)

Antisickling Ekeke, G.I. and Shode, F.O. 1988. Phenylalanine is the Predominant Antisickling Agent in Cajanus cajan Seed Extract. Planta Medica 56(1): 41, 1990.
Diuretic HerbalGram No. 17.

ASPARTIC-ACID Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

Activities (3)

Antimorphinic Martindale's 28th
Neuroexcitant Martindale's 28th
Roborant Merck 11th Edition

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|---------------------------------|-------|----|---------|-------|---|
| ASPARTIC-ACID | Leaf | -- | -- | | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-. |
| Activities (3) | | | | | |
| Antimorphinic | | | | | Martindale's 28th |
| Neuroexcitant | | | | | Martindale's 28th |
| Roborant | | | | | Merck 11th Edition |
| BARBALOIN | Plant | -- | -- | | Suga, T., Hirata, T. 1983. The Efficacy of the Aloe Plants Chemical Constituents and Biological Activities. Cosmet. Toiletries 98(6): 105-108. |
| Activities (6) | | | | | |
| Antibacterial | | | | | |
| Antihistaminic IC50=20-60 ug/ml | | | | | |
| Antitubercular | | | | | |
| Laxative 500 uM | | | | | |
| Pesticide | | | | | |
| Purgative ED50=15 mg/kg orl mus | | | | | |
| BARBALOIN | Juice | -- | -- | | * |
| Activities (6) | | | | | |
| Antibacterial | | | | | |
| Antihistaminic IC50=20-60 ug/ml | | | | | |
| Antitubercular | | | | | |
| Laxative 500 uM | | | | | |
| Pesticide | | | | | |
| Purgative ED50=15 mg/kg orl mus | | | | | |
| BARBALOIN | Leaf | -- | 42400.0 | | * |
| Activities (6) | | | | | |
| Antibacterial | | | | | |
| Antihistaminic IC50=20-60 ug/ml | | | | | |
| Antitubercular | | | | | |
| Laxative 500 uM | | | | | |
| Pesticide | | | | | |
| Purgative ED50=15 mg/kg orl mus | | | | | |
| BARBALOIN-A | Leaf | -- | -- | | Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282. |
| BEHENIC-ACID-METHYL-ESTER | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| BENZYL-ACETONE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (1) | | | | | |
| Antitussive | | | | | |
| BETA-BARBALOIN | Juice | -- | -- | | Mukerji, B. 1953. The Indian Pharmaceutical Codex. Vol. I-Indigenous Drugs. Council of Scientific and Industrial Research, New Delhi, India. |
| BETA-BARBALOIN | Plant | -- | -- | | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
| BETA-CAROTENE | Leaf | -- | 3.0 | -1.12 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

Activities (53)

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|------------------------------------|--|
| Allergenic | |
| Androgenic? | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| AntiPMS | |
| Antiacne | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiaging | |
| Antiarthritic | |
| Antiasthmatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticarcinomic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticervicaldysplasic | |
| Anticoronary 50 mg/man/2 days | |
| Antihyperkeratotic | |
| Antiichthyotic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antileukoplakic | |
| Antilipoperoxidant IC71=50 ug/ml | |
| Antilupus 150 mg/man/day/2 mos | Martindale's 28th |
| Antimaculitic | |
| Antimastitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antioxidant | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiozenic | |
| Antipapillomic | |
| Antiphotophobic 30-300 mg/man/day | Martindale's 29th |
| Antipityriasic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiporphyric 30-300 mg/man/day | Martindale's 28th |
| Antiproliferant | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antipsoriac | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiradicular | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | |
| Antistress | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antitumor | Simon, P.W. Carrots and Other Horticultural Crops as a Source of Provitamin A Carotenes. HortScience, 25(12): 1495, 1990. |
| Antitumor (Breast) IC45=60 ug/ml | |
| Antitumor (CNS) IC43=45 ug/ml | |
| Antitumor (Colon) IC43=45 ug/ml | |
| Antitumor (Lung) IC30=60 ug/ml | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) IC26=45 ug/ml | |
| Antiulcer 12 mg 3x/day/man/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer 15,000-25,000 IU/day | |
| Antixerophthalmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| COX-1-Inhibitor IC78=50 ug/ml | |
| COX-2-Inhibitor IC82=50 ug/ml | |
| Cancer-Preventive 22 ppm | Jim Duke's personal files. |
| Chemopreventive | |
| Colorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Gastroprotective | |
| Immunostimulant 180 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Interferon-Synergist | |
| Mucogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Phagocytotic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Prooxidant 20 ug/g | |
| Thymoprotective | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

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|---------------|-------------|--|
| BETA-CAROTENE | Stem -- 7.2 | Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266. |
| | Essent. | |
| | Oil | |

Activities (53)

| | |
|------------------------------------|--|
| Allergenic | |
| Androgenic? | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| AntiPMS | |
| Antiacne | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiaging | |
| Antiarthritic | |
| Antiasthmatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticancer | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Anticarcinomic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticervicaldysplasic | |
| Anticoronary 50 mg/man/2 days | |
| Antihyperkeratotic | |
| Antiichthyotic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antileukoplakic | |
| Antilipoperoxidant IC71=50 ug/ml | |
| Antilupus 150 mg/man/day/2 mos | Martindale's 28th |
| Antimaculitic | |
| Antimastitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. |
| Antioxidant | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiozenic | |
| Antipapillomic | |
| Antiphotophobic 30-300 mg/man/day | Martindale's 29th |
| Antipityriasic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiporphyrhic 30-300 mg/man/day | Martindale's 28th |
| Antiproliferant | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antipsoriac | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiradicular | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | |
| Antistress | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antitumor | Simon, P.W. Carrots and Other Horticultural Crops as a Source of Provitamin A Carotenes. HortScience, 25(12): 1495, 1990. |
| Antitumor (Breast) IC45=60 ug/ml | |
| Antitumor (CNS) IC43=45 ug/ml | |
| Antitumor (Colon) IC43=45 ug/ml | |
| Antitumor (Lung) IC30=60 ug/ml | |
| Antitumor (Prostate) | |
| Antitumor (Stomach) IC26=45 ug/ml | |
| Antiulcer 12 mg 3x/day/man/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer 15,000-25,000 IU/day | |
| Antixerophthalmic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| COX-1-Inhibitor IC78=50 ug/ml | |
| COX-2-Inhibitor IC82=50 ug/ml | |
| Cancer-Preventive 22 ppm | Jim Duke's personal files. |
| Chemopreventive | |
| Colorant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Gastroprotective | |
| Immunostimulant 180 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Interferon-Synergist | |
| Mucogenic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Phagocytotic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Prooxidant 20 ug/g | |
| Thymoprotective | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

BETA-SITOSTEROL

Plant

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Activities (47)

| | |
|--|--|
| Androgenic | |
| Angiogenic | |
| Anorexic | Martindale's 28th |
| Antiadenomic | Merck 11th Edition |
| Antiandrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Anticancer (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103. |
| Anticancer (Cervix) | |
| Anticancer (Lung) | |
| Antiedemic IC54=320 mg/kg orl | |
| Antiestrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antifertility | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Antigonadotrophic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Antihyperlipoproteinaemic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Antiinflammatory | |
| Antileukemic | |
| Antilymphomic | |
| Antimutagenic 250 ug/ml | |
| Antiophidic 2.3 mg mus | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC44=10 uM | |
| Antiprogestational | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Antiprostaglandin 30 mg/day/12 wks | |
| Antiprostataadenomic | Merck 11th Edition |
| Antiprostatic 10-20 mg 3 x/day/orl man | |
| Antipyretic | Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp. |
| Antitumor (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. <i>Plant Sci.</i> , 131(1): 95-103. |
| Antitumor (Cervix) | |
| Antitumor (Lung) | |
| Antiviral | Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991. |
| Apoptotic | |
| Artemicide LC50=110 ppm | Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Caspase-8-Inducer | |
| Estrogenic | |
| Febrifuge | Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs.</i> Chapman & Hall, New York. 941 pp. |
| Gonadotrophic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Hepatoprotective | |
| Hypocholesterolemic 2-6 g/man/day/orl | Martindale's 30th |
| Hypocholesterolemic 9-3,330 mg/man/day/orl | Martindale's 28th |
| Hypoglycemic | Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989. |
| Hypolipidemic 2-6 g/day | |
| Pesticide | |
| Spermicide | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990. |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Ulcerogenic 500 mg/kg ipr rat | |

BETA-SITOSTEROL

Leaf

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Activities (47)

| | |
|--|---|
| Androgenic | |
| Angiogenic | |
| Anorexic | Martindale's 28th |
| Antiadenomic | Merck 11th Edition |
| Antiandrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Anticancer (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103. |
| Anticancer (Cervix) | |
| Anticancer (Lung) | |
| Antiedemic IC54=320 mg/kg orl | |
| Antiestrogenic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antifeedant | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Antifertility | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antigonadotrophic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antihyperlipoproteinaemic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiinflammatory | |
| Antileukemic | |
| Antilymphomic | |
| Antimutagenic 250 ug/ml | |
| Antiophidic 2.3 mg mus | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC44=10 uM | |
| Antiprogestational | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Antiprostaglandin 30 mg/day/12 wks | |
| Antiprostataadenomic | Merck 11th Edition |
| Antiprostatic 10-20 mg 3 x/day/orl man | |
| Antipyretic | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Antitumor (Breast) | Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103. |
| Antitumor (Cervix) | |
| Antitumor (Lung) | |
| Antiviral | Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991. |
| Apoptotic | |
| Artemicide LC50=110 ppm | Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990. |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Caspase-8-Inducer | |
| Estrogenic | |
| Febrifuge | Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp. |
| Gonadotrophic | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Hepatoprotective | |
| Hypocholesterolemic 2-6 g/man/day/orl | Martindale's 30th |
| Hypocholesterolemic 9-3,330 mg/man/day/orl | Martindale's 28th |
| Hypoglycemic | Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989. |
| Hypolipidemic 2-6 g/day | |
| Pesticide | |
| Spermicide | Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990. |
| Ubiquiot | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Ulcerogenic 500 mg/kg ipr rat | |

BRADYKININASE

Plant -- -- *

Activities (4)

Analgesic
 Antiedemic
 Antiinflammatory
 Protease-Inhibitor

CALCIUM

Leaf 190.0 4600.0 -0.95 *

| Activities (28) | | | | | |
|------------------------------------|--|--|--|--|--|
| AntiPMS 1 g/day | | | | | |
| Antiallergic 500 mg/day | | | | | |
| Antianxiety | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiarrhythmic 500-1,500 mg | | | | | |
| Antiarthritic 1,000 mg/day | | | | | |
| Antiatherosclerotic 500 mg/day | | | | | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticlimacteric 1,000-1,500 mg/day | | | | | |
| Antidepressant | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidote (Aluminum) | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidote (Lead) | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihyperkinetic | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihypertensive | | | | | |
| Antiinsomniac | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antimenopausal 1,000-1,500 mg/day | | | | | |
| Antibesity | | | | | |
| Antiosteoporotic 500-2,000 mg/day | | | | | |
| Antiperiodontitic 750 mg/day | | | | | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antirheumatic 1,000 mg/day | | | | | |
| Antistress 500-1,500 mg/day | | | | | |
| Antitic | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anxiolytic 500-1,500 mg/day | | | | | |
| Calcium-Channel-Blocker | | | | | |
| Diuretic | | | | | |
| Hypocholesterolemic 500 mg/day | | | | | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Hypotensive 1 g/day | | | | | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Laxative 1,000-1,200 mg | | | | | |
| Tranquilizer 500-1,500 mg/day | | | | | |
| Vasodilator | | | | | |

CALCIUM-OXALATE Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

| Activities (4) | | | | | |
|----------------|--|--|--|--|--|
| Emetic | | | | | |
| Inflammatory | | | | | |
| Laxative | | | | | |
| Lithogenic | | | | | |

CALCIUM-OXALATE Leaf -- -- Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.

| Activities (4) | | | | | |
|----------------|--|--|--|--|--|
| Emetic | | | | | |
| Inflammatory | | | | | |
| Laxative | | | | | |
| Lithogenic | | | | | |

CAMPESTEROL Leaf -- -- *

| Activities (2) | | | | | |
|------------------------|--|--|--|--|--|
| Antioxidant IC37=10 uM | | | | | |
| Hypocholesterolemic | | | | | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |

CAMPESTEROL Plant -- -- *

| Activities (2) | | | | | |
|------------------------|--|--|--|--|--|
| Antioxidant IC37=10 uM | | | | | |
| Hypocholesterolemic | | | | | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. |

CARBOHYDRATES Leaf -- 896000.0 2.26 Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

CASANTHRANOL-I Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

CASANTHRANOL-II Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

CATALASE Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

| Activities (1) | | | | |
|---|-------|------|-------|--|
| Antioxidant | | | | Jim Duke's personal files. |
| CHLORIDE | Leaf | 10.0 | 110.0 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| CHOLESTEROL | Shoot | -- | -- | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhimi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| Activities (1) | | | | |
| Antioxidant IC43=10 uM | | | | |
| CHOLESTEROL | Leaf | 40.0 | 120.0 | * |
| Activities (1) | | | | |
| Antioxidant IC43=10 uM | | | | |
| CHOLESTEROL | Plant | -- | -- | Suga, T., Hirata, T. 1983. The Efficacy of the Aloe Plants Chemical Constituents and Biological Activities. <i>Cosmet. Toiletries</i> 98(6): 105-108. |
| Activities (1) | | | | |
| Antioxidant IC43=10 uM | | | | |
| CHOLINE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (20) | | | | |
| Antialzheimeran 5-16 g/man/day | | | | |
| Antichoreic | | | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. |
| Anticirrhotic 6,000 mg/man/day | | | | |
| Anticystinuric | | | | |
| Antidementia | | | | |
| Antidiabetic | | | | |
| Antidyskinetic 150-200 mg/kg/man/day | | | | Martindale's 28th |
| Antihomocysteine | | | | |
| Antimanic 15-30 g/man/day/orl | | | | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antinociceptive | | | | |
| Antisteatotic | | | | |
| Cardiodepressant | | | | |
| Cerebrotonic | | | | |
| Cholinergic | | | | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |
| Hepatoprotective | | | | |
| Hypotensive | | | | |
| Ileorelaxant | | | | |
| Lipotropic | | | | |
| Memorigenic | | | | |
| Parasympathomimetic (1/1,000th acetylcholine) | | | | Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp. |
| CHOLINE-SALICYLATE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (2) | | | | |
| Analgesic | | | | Martindale's 28th |
| Antialgic | | | | Martindale's 28th |
| CHROMIUM | Leaf | -- | -- | Pedersen, M. 1987. <i>Nutritional Herbology</i> . Pederson Publishing. Bountiful, Utah. 377 pp. |

Activities (24)

| | |
|----------------------------------|--|
| Amphiglycemic? | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| AntiAGE 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| AntiCFS 200 ug | |
| Antiacne | |
| Antiaging 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiatherosclerotic 20 ug/day | |
| Anticorneotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidiabetic 200-1,000 ug | |
| Antidote (Lead) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antifatigue 200 ug | |
| Antiglycosuric 200-1,000 ug | |
| Antiobesity 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antisyndrome-X 200-800 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitriglyceride 20 ug/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antitriglyceride 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Cardioprotective | |
| Energizer | |
| Hypocholesterolemic 20 ug/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Hypocholesterolemic 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypoglycemic 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Hypotensive 200-1,000 ug | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Immunomodulator | |
| Insulinogenic | |
| Memorigenic | |

CHRYSAMMINIC-ACID

Plant

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Pakistan Encyclopedia Planta Medica. 1986.

CHRYSAZIN

Leaf

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Zwaving, J. H., Elema, E. T. 1976. A Comparative Investigation of Two Methods for the Determination of 1,8-dihydroxyanthracene Derivatives in Vegetable Drugs. Pharm. Weekbl. 111: 1315-.

Activities (5)

Calcium-Antagonist

Cathartic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Immunosuppressant

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Topoisomerase-II-Inhibitor 1 mM

Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? Mutat Res, 371: 165-173.

Topoisomerase-II-Inhibitor IC50=61 uM/ml

Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414.

CHRYSOPHANIC-ACID

Juice

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Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.

Activities (6)

Antispasmodic

Calcium-Antagonist

Fungicide

Keratitogenic

Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill.

Oculoirritant

Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill.

Pesticide

CHRYSOPHANIC-ACID

Leaf

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Mary, N. Y., Christensen, B. V., Beal, J. L. 1956. A Paper Chromatographic Study of Aloe, Aloin and Cascara sagrada. J. Amer. Pharm. Ass. Sci. Ed., 45: 229-232.

| Activities (6) | | | | |
|--------------------|---|--|--|--|
| Antispasmodic | | | | |
| Calcium-Antagonist | | | | |
| Fungicide | | | | |
| Keratitogenic | Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill. | | | |
| Oculoirritant | Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill. | | | |
| Pesticide | | | | |

CHRY SOPHANIC-ACID Plant -- -- *

| Activities (6) | | | | |
|--------------------|---|--|--|--|
| Antispasmodic | | | | |
| Calcium-Antagonist | | | | |
| Fungicide | | | | |
| Keratitogenic | Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill. | | | |
| Oculoirritant | Mitchell, J. and Rook, A.J. 1923. Botanical Dermatology: plants and plant products injurious to the skin. Vancouver: Greengrass, 1979. xiii, 787 p.: ill. | | | |
| Pesticide | | | | |

CHRY SOPHANOL Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

| Activities (10) | | | | |
|-----------------------------------|--|--|--|--|
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. | | | |
| Antiseptic | | | | |
| Calcium-Antagonist 5/6 aloeemodin | | | | |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. | | | |
| Cathartic | | | | |
| Hemostat | | | | |
| Pesticide | | | | |
| Pigment | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Purgative ED50=>500 mg/kg orl mus | | | | |
| Termitifuge | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |

CHRY SOPHANOL-GLYCOSIDE Plant -- -- *

CINNAMIC-ACID Plant -- -- *

| Activities (18) | | | | |
|--|---|--|--|--|
| Aldose-Reductase-Inhibitor 4 ug/ml (weak activity) | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyō Kenkyūsho Nempo, 43: 99-110. | | | |
| Allergenic | | | | |
| Anesthetic | | | | |
| Antibacterial | Martindale's 28th | | | |
| Antiinflammatory | | | | |
| Antimutagenic | Economic & Medicinal Plant Research, 6: 235. | | | |
| Antispasmodic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Choleretic | | | | |
| Dermatitogenic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| FLavor FEMA 4-40 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | |
| Fungicide | | | | |
| Herbicide | | | | |
| Laxative | | | | |
| Lipoxygenase-Inhibitor | | | | |
| Pesticide | | | | |
| Tyrosinase-Inhibitor ID50=700 uM | | | | |
| Vermifuge | | | | |

COBALT Leaf -- -- Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities (2)

| | |
|---------------------|--|
| Cardiomyopathogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Erythrocytogenic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |

CONIFERYL-ALCOHOL

Plant -- --

Pakistan Encyclopedia Planta Medica. 1986.

Activities (6)

| | |
|-----------------------------------|---|
| Antiaggregant IC50=29 uM | Laekeman, G.M., Van Hoof, L., Haemers, A., Vanden Berghe, D.A., Herman, A.G., and Vlietinck, A.J. Eugenol a Valuable Compound for In Vitro Experimental Research and Worthwhile for Further In Vivo Investigation. <i>Phytotherapy Research</i> 4(3): 93, 1990. |
| Antioxidant EC50=13-18 ug/ml | |
| Antiprostaglandin | |
| Antiradicular EC50=13-18 ug/ml | |
| Fungicide ED50=125 ug/ml | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Pesticide | |

COUMARIN

Plant -- --

Pakistan Encyclopedia Planta Medica. 1986.

Activities (57)

| | |
|---|--|
| Aldose-Reductase-Inhibitor 10 ug/ml cow (weak activity, 11% inhibition) | Okada, Y, et al. 1995. Search for Naturally Occurring Substances to Prevent the Complications of Diabetes. II. Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation. <i>Chem Pharm Bull</i> 43(8):1385-1387 |
| Allelochemic IC100=2 mM | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Analgesic | Zebowitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. <i>Compendium of Safety Data Sheets for Research and Industrial Chemicals</i> . VCH Publishers, New York. 3560-4253. |
| Anesthetic | |
| Antiaggregant | |
| Antiandrogenic | <i>Planta Medica</i> , 56(6): 671, 1990. |
| Antibrucecellosic | Gawron, A., Gorski*, G., Glowniak**, K. 1989. Increased proliferation of phytohaemagglutinin (PHA)-stimulated human leucocytes after 8-methoxypsoralen treatment. <i>J. Pharm. Pharmacol.</i> 42: 194-195, 1990. |
| Anticancer (Kidney) 400-7,000 mg/day | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Anticancer (Prostate) 400-7,000 mg/day | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antidiuretic | |
| Antiedemic | Shimizu, *M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (<i>Lavandula latifolia</i> Vill.)2). <i>Chem. Pharm. Bull.</i> 38(8): 2283-2284, 1990. |
| Antiesherichic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Antiinflammatory | Shimizu, *M., et al. 1990. Anti-inflammatory Constituents of Topically Applied Crude Drugs. IV.1) Constituents and Anti-inflammatory Effect of Paraguayan Crude Drug 'Alhucema' (<i>Lavandula latifolia</i> Vill.)2). <i>Chem. Pharm. Bull.</i> 38(8): 2283-2284, 1990. |
| Antilymphedemic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antimelanomic 50 mg/day | |
| Antimetastatic 50 mg/man/day | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antimitotic | Pandeya, S.N. 1970. Biological Activity of Adamantyl Derivatives. <i>The Indian Journal of Pharmacy</i> , 33: 7. |
| Antimononucleotic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antimutagenic | <i>Economic & Medicinal Plant Research</i> , 6: 235. |
| Antimycoplasmotic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antipsittacotic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antipsoriac | Pandeya, S.N. 1970. Biological Activity of Adamantyl Derivatives. <i>The Indian Journal of Pharmacy</i> , 33: 7. |
| Antitoxoplasmotic | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antitumor 50 mg/day | |
| Antitumor (GI) | |
| Antitumor (Kidney) 400-7,000 mg/day | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Antitumor (Prostate) 400-7,000 mg/day | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Bacteristat | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp. |
| Bruchiphobe | |
| Cancer-Preventive 5-25 ug/ml | Gawron, A. and Glowniak, K. 1987. Cytostatic Activity of Coumarins in vitro. <i>Planta Medica</i> 1987: 526. |
| Carcinogenic 200 mg/kg orl mus | Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingstone, Edinburgh. |
| Cardiodepressant | |
| Cardiotonic | |
| Chemopreventive | |
| DME-Inhibitor IC50=57.5 uM | Advance in Chinese Medicinal Materials Research. 1985. Eds. H. M. Chang, H. W. Yeung, W. -W. Tso and A. Koo. World Scientific Publishing Co., Philadelphia Pa., page 134. |
| Emetic | |
| Estrogenic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp. |

| | |
|------------------------------------|---|
| Fungicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Hemorrhagic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Hepatotoxic 0.8-1.71 mM/kg orl rat | |
| Hepatotoxic 2,500 ppm diet | |
| Hepatotoxic 100 mg/kg dog | |
| Hypnotic | Schultes, R.E. De Plantis Toxicariis e Mundo Novo Tropicale Commentationes XXXVI. Justicia (Acanthaceae) as a Source of an Hallucinogenic Snuff. Economic Botany 44(1): 61-70, 1990. |
| Hypoglycemic 250-1,000 mg/kg orl | Economic & Medicinal Plant Research, 6: 165 |
| Immunostimulant | |
| Juvabional | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Larvostat | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Lymphocytogenic 100 mg/day | Gawron, A., Gorski*, G., Glowniak**, K. 1989. Increased proliferation of phytohaemagglutinin (PHA)-stimulated human leucocytes after 8-methoxypsoralen treatment. J. Pharm. Pharmacol. 42: 194-195, 1990. |
| Lymphokinetic | |
| Narcotic | |
| Ovicide | |
| Pesticide | |
| Phagocytotic | Planta Medica, 56(6): 671, 1990. |
| Piscicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Respirodepressant | |
| Rodenticide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Sedative | Schultes, R.E. De Plantis Toxicariis e Mundo Novo Tropicale Commentationes XXXVI. Justicia (Acanthaceae) as a Source of an Hallucinogenic Snuff. Economic Botany 44(1): 61-70, 1990. |

| | | | | |
|----------------|-------|-----|------|---|
| CREATININE | Leaf | 1.0 | 15.0 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| CYCLOEICOSANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| CYCLOOXYGENASE | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| CYSTEINE | Leaf | -- | -- | Yagi, A., Shida, T., Nishimura, H. 1987. Effect of Amino Acids in Aloe Extract on Phagocytosis by Peripheral Neutrophil in Adult Bronchial Asthma. Jap. J. Allergol. 36(12): 1094-1101. |

| Activities (13) | |
|-----------------------|--|
| AntiAddisonian | |
| Antibiotic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Anticataract | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticytotoxic | |
| Antiophthalmic | Martindale's 28th |
| Antioxidant | Jim Duke's personal files. |
| Antitumor | |
| Antiulcer | Martindale's 29th |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Detoxicant | Merck 11th Edition |
| Glutathionergic | |
| Ophthalmic-Antialkali | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |

| | | | | |
|---------|-------|----|----|---|
| CYSTINE | Juice | -- | -- | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-. |
|---------|-------|----|----|---|

| Activities (2) | |
|--------------------|--------------------|
| Adjuvant | Merck 11th Edition |
| Antihomocystinuric | Martindale's 29th |

| | | | | |
|-------------|-------|----|----|--|
| D-ARABINOSE | Plant | -- | -- | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| D-GALACTAN | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |

| | | | | |
|----------------------|-------|----|----|--|
| D-GALACTOSE | Leaf | -- | -- | Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of Aloe vera Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72. |
| D-GALACTOURONIC-ACID | Plant | -- | -- | * |
| D-GALACTURONIC-ACID | Leaf | -- | -- | * |
| D-GALACTURONIC-ACID | Plant | -- | -- | * |
| D-GLUCOSE | Leaf | -- | -- | Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of Aloe vera Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72. |

Activities (1)

Antisecretory

| | | | | |
|-----------------------------|-------|----|-----|--|
| D-MANNOSE | Leaf | -- | -- | Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of Aloe vera Tourn. (Ex. Linn). Bangladesh J. Sci. Ind. Res. 16 1/4: 68-72. |
| DECYL-CYCLOHEXANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DEHYDROABIETAL | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DI-(2-ETHYLHEXYL)-PHTHALATE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| DIBUTYL-PHTHALATE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DIHEPTYL-PHTHALATE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DIOCTYL-PHTHALATE? | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DODECYL-BENZENE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| DODECYL-CYCLOHEXANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| ELGONICA-DIMER-A | Leaf | -- | 7.2 | Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167. |
| ELGONICA-DIMER-B | Leaf | -- | 2.7 | Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167. |
| EMODIN | Leaf | -- | -- | Saleem, R., Faizi, S., Deeba, F., Siddiqui, B. S., Qazi, M. H. 1997. Anthrones from Aloe barbadensis. Phytochemistry, 45(6): 1279-1282. |

Activities (58)

AGEs-Inhibitor IC50=118 uM

Aldose-Reductase-Inhibitor IC50=15.9 uM

Allergenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

AntiMRSA MIC 2-64 ug/ml

Antiaggregant

Antiangiogenic

Antibacterial

Anticytomegalovirus ED50=1.1 ug/ml

Antifeedant Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antiinflammatory 15 mg/kg

Antileukemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antilymphomic

Antimutagenic

Antineoplastic

Antiplaque ED50=1.1 ug/ml

Antiproliferant IC50=20-30 uM

Antisarcomic

Antiseptic

| | |
|---|--|
| Antispasmodic | Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989. |
| Antisprout | |
| Antitumor (Breast) | |
| Antiulcer 15 mg/kg | |
| Antivaginitic | Tillotson, A. K. (with Abel, Jr., R., Tillotson, N.H., Bajracharya, V.M.B.). 2001. The One Earth Herbal Sourcebook: Everything You Need to Know about Chinese, Western, and Ayurvedic Herbal Treatments. Twin Streams, Kensington Publishing Corp. NY,NY. 596 pp |
| Antiviral ED50=1.1 ug/ml | |
| Antiviral EC50=1.1 | |
| CNS-Depressant 15 mg/kg ipr mus | |
| COX-2-Inhibitor | |
| Cathartic | Merck 11th Edition |
| Collagenase-Inhibitor IC50=40 uM | |
| Cytotoxic CD50=2.6 ug/ml | |
| Differentiator IC50=20-30 uM | |
| Estrogenic | |
| Genotoxic | |
| Gonadotropic | |
| Hypolipidemic | |
| Immunostimulant | |
| Immunosuppressant | |
| Leucocytogenic | |
| MMP-2-Inhibitor | |
| MMP-7-Inhibitor | |
| MMP-9-Inhibitor | |
| Mutagenic | |
| NO-Inhibitor IC50=60.7 uM | |
| PGE2-Inhibitor | |
| PTK-Inhibitor 10-100 uM | |
| PTK-Inhibitor IC50=19-37 uM | |
| Pesticide | |
| Prostaglandin-Synthesis-Inhibitor IC50=23 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414. |
| Protein-Kinase-C-Inhibitor IC50=25 uM | |
| Purgative ED50=>500 mg/kg orl mus | |
| Styptic | |
| Topoisomerase-II-Inhibitor 1 mM | Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? Mutat Res, 371: 165-173. |
| Topoisomerase-II-Inhibitor IC50=7 uM/ml | Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414. |
| Trichomonicide | |
| Tyrosine-Kinase-Inhibitor | |
| Vasodilator | |
| Vasorelaxant | |
| iNOS-Inhibitor | |

EMODIN

Plant

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Pakistan Encyclopedia Planta Medica. 1986.

Activities (58)

AGEs-Inhibitor IC50=118 uM

Aldose-Reductase-Inhibitor IC50=15.9 uM

Allergenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp.

AntiMRSA MIC 2-64 ug/ml

Antiaggregant

Antiangiogenic

Antibacterial

Anticytomegalovirus ED50=1.1 ug/ml

Antifeedant Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antiinflammatory 15 mg/kg

Antileukemic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antilymphomic

Antimutagenic

Antineoplastic

Antiplaque ED50=1.1 ug/ml

Antiproliferant IC50=20-30 uM

Antisarcotic

Antiseptic

Antispasmodic Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.

Antisprout

Antitumor (Breast)

Antiulcer 15 mg/kg

Antivaginitic Tillotson, A. K. (with Abel, Jr., R., Tillotson, N.H., Bajracharya, V.M.B.). 2001. The One Earth Herbal Sourcebook: Everything You Need to Know about Chinese, Western, and Ayurvedic Herbal Treatments. Twin Streams, Kensington Publishing Corp. NY,NY. 596 pp

Antiviral ED50=1.1 ug/ml

Antiviral EC50=1.1

CNS-Depressant 15 mg/kg ipr mus

COX-2-Inhibitor

Cathartic Merck 11th Edition

Collagenase-Inhibitor IC50=40 uM

Cytotoxic CD50=2.6 ug/ml

Differentiator IC50=20-30 uM

Estrogenic

Genotoxic

Gonadotropic

Hypolipidemic

Immunostimulant

Immunosuppressant

Leucocytogenic

MMP-2-Inhibitor

MMP-7-Inhibitor

MMP-9-Inhibitor

Mutagenic

NO-Inhibitor IC50=60.7 uM

PGE2-Inhibitor

PTK-Inhibitor 10-100 uM

PTK-Inhibitor IC50=19-37 uM

Pesticide

Prostaglandin-Synthesis-Inhibitor IC50=23 uM/ml Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414.

Protein-Kinase-C-Inhibitor IC50=25 uM

Purgative ED50=>500 mg/kg orl mus

Styptic

Topoisomerase-II-Inhibitor 1 mM Muller, S. O., Eckert, I., Lutz, W. K., Stopper, H. 1996. Genotoxicity of the Laxative Drug Components Emodin, Aloe-emodin and Danthron in Mammalian Cells: Topoisomerase II Mediated? Mutat Res, 371: 165-173.

Topoisomerase-II-Inhibitor IC50=7 uM/ml Mueller, S. O., Stopper, H. 1999. Characterization of the Genotoxicity of Anthraquinones in Mammalian Cells. Biochimica & Biophysica Acta, 1428: 406-414.

Trichomonicide

Tyrosine-Kinase-Inhibitor

Vasodilator

Vasorelaxant

iNOS-Inhibitor

| | | | | | |
|------------|------|----|----------|-------|--|
| FAT | Leaf | -- | 8000.0 | -0.97 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| FERALOLIDE | Leaf | -- | 14.5 | | Choi, J. S., Lee, S. K., Sung, C. K., Jung, J. H. 1996. Phytochemical Study of Aloe vera. Arch. Pharm. Res., 19(2): 163-167. |
| FIBER | Leaf | -- | 177000.0 | 0.19 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

Activities (15)

| | |
|------------------------------|--|
| Angiotensin-Receptor-Blocker | |
| Antidiabetic | |
| Antihypertensive | |
| Antiobesity | |
| Antitumor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiulcer | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Beta-Blocker | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic | |
| Hypotensive 10 g/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Hypouricemic | |
| Laxative | |
| Vasodilator | |

FOLACIN

Leaf 0.027 0.2 -1.02 *

Activities (15)

| | |
|---|--|
| AntiSpina-Bifida | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antianemic 5-20 mg/man/day | |
| Anticervicaldysplasic 8-30 mg/wmn/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticheilitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antigingivitic 2-5 mg/day/man | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiglossitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antimyelotoxic 5 mg/day/orl/man | Martindale's 29th |
| Antineuropathic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiperiodontitic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiplateque | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antipsychotic | Martindale's 29th |
| Hematopoietic | Merck 11th Edition |
| Uricosuric | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Xanthine-Oxidase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

FOLIC-ACID

Leaf 27.0 200.0 1.0 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Activities (23)

| | |
|---|--|
| AntiSpina-Bifida | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antianemic 5-20 mg/man/day | |
| Anticervicaldysplasic 8-30 mg/wmn/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Anticheelitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticoronary 400 ug/man/day | |
| Antidementia 10-20 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antidepressant 800 ug/day | |
| Antingingivitic 2-5 mg/day/man | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiglossitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antigout 10-40 mg/day | |
| Antiinfertility | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antimetaplastic 10 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antimyelotoxic 5 mg/day/orl/man | Martindale's 29th |
| Antineuropathic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiperiodontal 1 mg day | |
| Antiplaque | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antipolyp (preventive) | |
| Antipsychotic | Martindale's 29th |
| Cancer-Preventive | |
| Hematopoietic | Merck 11th Edition |
| Immunostimulant | |
| Uricosuric | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Xanthine-Oxidase-Inhibitor | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |

FORMIC-ACID

Plant

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Pakistan Encyclopedia Planta Medica. 1986.

Activities (13)

| | |
|-----------------------|--|
| Acaricide | |
| Antiseptic | |
| Antisyncopic | |
| Astringent | Merck 11th Edition |
| Corrosive | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Counterirritant | Merck 11th Edition |
| FLavor FEMA 500-2,500 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Fungistat | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Fungitoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Irritant | |
| Pesticide | |
| Preservative | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Toxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

FRUCTOSE

Stem

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Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266.

Essent.
Oil**Activities (8)**

| | |
|-----------------------|--|
| Antialcoholic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antidiabetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antihangover | |
| Antiketotic | Merck 11th Edition |
| Antinauseant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Laxative | |
| Neoplastic | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses |
| Sweetener 2 x glucose | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

FRUCTOSE

Plant

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Pakistan Encyclopedia Planta Medica. 1986.

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|---------------------------|--|----|-------|---|
| Activities (8) | | | | |
| Antialcoholic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antidiabetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antihangover | | | | |
| Antiketotic | Merck 11th Edition | | | |
| Antinauseant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Laxative | | | | |
| Neoplastic | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses | | | |
| Sweetener 2 x glucose | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| FRUCTOSE | Leaf | -- | -- | Rowe, T. D., Parks, L. M. 1941. A Phytochemical Study of Aloe vera Leaf. J. Amer. Pharm. Ass. Sci. Ed., 30: 262-266. |
| Activities (8) | | | | |
| Antialcoholic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antidiabetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Antihangover | | | | |
| Antiketotic | Merck 11th Edition | | | |
| Antinauseant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Laxative | | | | |
| Neoplastic | CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses | | | |
| Sweetener 2 x glucose | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| GALACTAN | Leaf | -- | 100.0 | Mandal, G., Das, A. 1980. Characterization of the Polysaccharides of Aloe barbadensis, Part I. Structure of the D-Galactan Isolated from Aloe barbadensis Miller. Carbohydr. Res. 86: 247-257. |
| GALACTOSE | Leaf | -- | -- | * |
| Activities (1) | | | | |
| Sweetener 0.32 x sucrose | | | | Martindale's 28th |
| GALACTOSE | Plant | -- | -- | * |
| Activities (1) | | | | |
| Sweetener 0.32 x sucrose | | | | Martindale's 28th |
| GAMOLENIC-ACID | Plant | -- | -- | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| GLOBULIN | Leaf | -- | 2.0 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| GLUCOGALACTOMANNAN | Leaf | -- | -- | * |
| GLUCOMANNAN | Leaf | -- | -- | Mandal, G., Das, A. 1980. Characterization of the Polysaccharides of Aloe barbadensis Miller, Part II. Structure of the Glucomannan Isolated from the Leaves of Aloe barbadensis Miller. Carbohydr. Res. 87: 249-256. |
| Activities (3) | | | | |
| Anorectic? | | | | Martindale's 29th |
| Antidiabetic | | | | |
| Hypocholesterolemic | | | | |
| GLUCOMANNAN | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (3) | | | | |
| Anorectic? | | | | Martindale's 29th |
| Antidiabetic | | | | |
| Hypocholesterolemic | | | | |
| GLUCOSAMINE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |

| Activities (1) | | | | | |
|-----------------------|--|--|--|--|--|
| Antiarthritic | | | | | |

GLUCOSE Leaf 280.0 1030.0 -0.64 *

| Activities (7) | |
|-----------------------|---|
| Acetylcholinergic | |
| Antiedemic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Antihepatotoxic | Merck 11th Edition |
| Antiketotic | Merck 11th Edition |
| Antivaricose | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Hyperglycemic | Merck 11th Edition |
| Memory-Enhancer | Science News, 138: 189, 1990. |

GLUTAMIC-ACID Leaf -- 43256.0 0.29 *

| Activities (8) | |
|--------------------------------------|---|
| Antialkali? 500-1,000 mg/day/orl/man | Martindale's 29th |
| Antiepileptic | |
| Antihyperammonemic | Martindale's 29th |
| Antilithic | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic 125-250 mg 3 x/day | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antiretardation | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| Anxiolytic | Merck 11th Edition |
| Neurotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |

GLUTAMINE Leaf -- 20607.0 *

| Activities (5) | |
|------------------------------------|---|
| Antialcoholic 1,000 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antidepressant | Werbach, M. 1993. <i>Healing with Food.</i> Harper Collins, New York, 443 pp. |
| Antisickling | |
| Antiulcer 1,600 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Catabolic | Tramil |

GLYCEROL Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

| Activities (8) | |
|------------------------|--------------------|
| AntiMeniere's 1.5 g/kg | Martindale's 29th |
| Anticataract | Martindale's 29th |
| Antiear-wax | Martindale's 29th |
| Antiketotic | Merck 11th Edition |
| Antineuralgic | Martindale's 29th |
| Arrhythmigenic | Martindale's 29th |
| Emollient | Merck 11th Edition |
| Hyperglycemic | Martindale's 29th |

GLYCINE Leaf -- 5030.0 -1.43 *

| Activities (12) | | | | | |
|----------------------------------|---|--|--|--|--|
| Antiacid | Martindale's 29th | | | | |
| Antialdosteronic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Antidote (Hypoglycin-A) | Martindale's 29th | | | | |
| Antiencephalopathic | Martindale's 29th | | | | |
| Antigastric | Martindale's 29th | | | | |
| Antiprostatic 125-250 mg 3 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antipruritic | Merck 11th Edition | | | | |
| Antisickling | Ekeke, G.I. and Shode, F.O. 1988. Phenylalanine is the Predominant Antisickling Agent in <i>Cajanus cajan</i> Seed Extract. <i>Planta Medica</i> 56(1): 41, 1990. | | | | |
| Antiulcer | Martindale's 29th | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | |
| Neuroinhibitor | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Uricosuric | | | | | |

| | | | | | |
|---------------------------------|-------|----|--------|-------|---|
| HECOGENIN | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| HENEICOSANOIC-ACID-METHYL-ESTER | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| HEPTADEC-1-ENE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of <i>Aloe vera</i> (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| HEXAURONIC-ACID | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| HISTIDINE | Leaf | -- | 2327.0 | -1.53 | * |

| Activities (7) | | | | | |
|----------------------|---|--|--|--|--|
| Antiarteriosclerotic | | | | | |
| Antinephritic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| Antioxidant | | | | | |
| Antiulcer | | | | | |
| Antiuremic | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| Essential | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. | | | | |
| Oxidant | | | | | |

| | | | | | |
|----------------------------|-------|----|----|--|--|
| HOMONATALOIN | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| HYDROCINNAMIC-ACID | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| HYDROXYMETHYLANTHRAQUINONE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| HYDROXYPROLINE | Juice | -- | -- | | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of <i>Aloe barbadensis</i> . <i>Proc. Okla. Acad. Sci.</i> 58: 69-. |

| Activities (1) | | | | | |
|----------------|------|------|-------|-------|--|
| Vulnerary | | | | | |
| IRON | Leaf | 30.0 | 300.0 | -0.16 | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |

| Activities (6) | | | | | |
|------------------------------------|--|----|----|--|---|
| Antiakathitic | Martindale's 29th | | | | |
| Antianemic | Martindale's 29th | | | | |
| Anticancer | | | | | |
| Anticheilitic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. | | | | |
| Antimenorrhagic 100 mg/day/wmn/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | |
| Prooxidant | | | | | |
| ISOALOERESIN-D | Leaf | -- | -- | | * |
| ISOALOESOL-D | Juice | -- | -- | | Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of <i>Aloe vera</i> Leaves. <i>Phytochemistry</i> , 45(7): 1511-1513. |
| ISOBARBALOIN | Leaf | -- | -- | | * |

| | | | | | | |
|--------------------------|--|----|--------|-------|---|---|
| ISOBARBALOIN | Plant | -- | -- | | | =ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp |
| ISOCITRIC-ACID | Leaf | -- | -- | | | Kringstad, R., Nordal, A. 1975. Lactone-Forming Acids in Succulent Plants. Phytochemistry, 14: 1868-1870. |
| ISOLEUCINE | Leaf | -- | 8526.0 | -0.91 | * | |
| Activities (3) | | | | | | |
| Antiencephalopathic? | Martindale's 29th | | | | | |
| Antipellagic | Martindale's 28th | | | | | |
| Essential | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | | |
| ISORABAICHRMONE | Juice | -- | 1457.0 | | | Okamura, N., Hine, N., Tateyama, Y., Nakazawa, M., Fujioka, T., Mihashi, K., Yagi, A. 1997. Three Chromones of Aloe vera Leaves. Phytochemistry, 45(7): 1511-1513. |
| KILOCALORIES | Leaf | -- | 2800.0 | -0.35 | | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| L-ASPARAGINE | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| LAURIC-ACID | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| Activities (7) | | | | | | |
| Antibacterial | | | | | | |
| Antioxidant IC71=60 | | | | | | |
| Antiviral | | | | | | |
| COX-1-Inhibitor IC40=100 | | | | | | |
| COX-2-Inhibitor IC20=100 | | | | | | |
| Candidicide | | | | | | |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) | | | | | |
| LAURIC-ACID-METHYL-ESTER | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| LEUCINE | Leaf | -- | 6952.0 | -1.47 | * | |
| Activities (2) | | | | | | |
| Antiencephalopathic | Martindale's 29th | | | | | |
| Essential | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | | | |
| LIGNIN | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (13) | | | | | | |
| AntiHIV | | | | | | |
| Antibacterial | | | | | | |
| Anticancer | | | | | | |
| Anticoronary | | | | | | |
| Antidiarrheic | Martindale's 29th | | | | | |
| Antinitrosaminic | | | | | | |
| Antioxidant | | | | | | |
| Antitumor | | | | | | |
| Antiviral | | | | | | |
| Chelator | | | | | | |
| Hypocholesterolemic | | | | | | |
| Laxative | | | | | | |
| Pesticide | | | | | | |
| LINOLEIC-ACID | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

Activities (27)
5-Alpha-Reductase-Inhibitor

| | |
|-------------------------------|---|
| AntiMS | Economic & Medicinal Plant Research, 6: 189. |
| Antiacne | |
| Antialopecic | |
| Antianaphylactic | Economic & Medicinal Plant Research, 6: 189. |
| Antiandrogenic | |
| Antiarteriosclerotic | |
| Antiarthritic | Economic & Medicinal Plant Research, 6: 189. |
| Anticoronary | Jeffery B., Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antieczemic | Economic & Medicinal Plant Research, 6: 189. |
| Antifibrinolytic | Economic & Medicinal Plant Research, 1: 53. |
| Antigranular | |
| Antihistaminic | Economic & Medicinal Plant Research, 6: 189. |
| Antiinflammatory IC50=31 uM | |
| Antileukotriene-D4 IC50=31 uM | |
| Antimenorrhagic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Carcinogenic | Science News, 146: 421. |
| Comedolytic | |
| Hepatoprotective | |
| Hypocholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Immunomodulator | Economic & Medicinal Plant Research, 6: 189. |
| Insectifuge | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990. |
| Metastatic | Science News, 146: 421. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Propepic | |

| | | | | |
|---------------------------|-------|----|------|---|
| LINOLEIC-ACID-ETHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| LIPASE | Leaf | -- | 16.0 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| LUPEOL | Leaf | -- | -- | * |

Activities (21)

| | |
|-----------------------------------|--|
| AntiEBV | |
| Antiangiogenic 30-50 ug/ml | |
| Antiedemic | |
| Antiflu | |
| Antihyperglycemic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiinflammatory 1/3 indomethacin | |
| Antilithic 25 mg/kg/day | |
| Antimalarial IC50=46.8 ug/ml | Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using Plasmodium falciparum*. Journal of Ethnopharmacology, 15: 201-209, 1986. |
| Antioxalate 25 mg/kg/day | |
| Antioxidant 25 mg/kg/day | |
| Antiperoxidant 25 mg/kg/day | |
| Antiprostaglandin | |
| Antirheumatic | |
| Antitumor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiurethrotic | |
| Antiviral | |
| Cytotoxic 50-500 ppm | |
| FPTase-Inhibitor IC50=65 ug/ml | |
| Hypotensive | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| TOPO-2-Inhibitor IC50=10.4 uM | |

LUPEOL

Plant -- -- *

Activities (21)

| | |
|-----------------------------------|--|
| AntiEBV | |
| Antiangiogenic 30-50 ug/ml | |
| Antiedemic | |
| Antiflu | |
| Antihyperglycemic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiinflammatory 1/3 indomethacin | |
| Antilithic 25 mg/kg/day | |
| Antimalarial IC50=46.8 ug/ml | Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using Plasmodium falciparum*. Journal of Ethnopharmacology, 15: 201-209, 1986. |
| Antioxalate 25 mg/kg/day | |
| Antioxidant 25 mg/kg/day | |
| Antiperoxidant 25 mg/kg/day | |
| Antiprostaglandin | |
| Antirheumatic | |
| Antitumor | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antiurethrotic | |
| Antiviral | |
| Cytotoxic 50-500 ppm | |
| FPTase-Inhibitor IC50=65 ug/ml | |
| Hypotensive | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| TOPO-2-Inhibitor IC50=10.4 uM | |

LYSINE

Leaf -- 7748.0 -1.17 *

Activities (4)

| | |
|---------------------------|--|
| Antialkalotic | Martindale's 29th |
| Antiherpetic 0.5-3 g/day | |
| Essential | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Hypoarginanemic 250 mg/kg | Martindale's 29th |

| | | | | | |
|---------------------------|-------|----|-------|-------|--|
| LYSOPHOSPHATIDYL-INOSITOL | Shoot | -- | -- | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
| M-PROTocatechuic-ALDEHYDE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| MAGNESIUM | Leaf | -- | 930.0 | -1.23 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

Activities (65)

| | |
|---|--|
| AntiCFS | |
| AntiLyme 400-1,000 mg | |
| AntiMS | |
| AntiPMS 400-800 mg/day/wmn/orl | |
| AntiPMS 400-800 mg/day/wmn orl | |
| AntiRaynaud's 280-350 mg/day | |
| Antiaggregant 400 mg/day | |
| Antialcoholic | |
| Antianginal 400 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antianorectic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antianxiety 400 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiarrhythmic 400 mg/day | |
| Antiarthritic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiasthmatic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiatherosclerotic 400 mg/day | |
| Anticephalagic | |
| Anticlimacteric 500-750 mg/day | |
| Anticonvulsant | Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp. |
| Anticoronary 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidepressant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidiabetic 400-800 mg/man/day | |
| Antidysmenorrheic 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiendometriotic 500 mg/day | |
| Antienterotic | |
| Antiepileptic 450 mg/day | |
| Antifatigue | |
| Antifibromyalgic 200-300 mg 3x/day | |
| Antigastroic | |
| Antiglaucomic | |
| Antihyperkinetic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihypertensive | |
| Antihypoglycemic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiinflammatory 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antilithic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimastalgic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimenopausal 500-750 mg/day | |
| Antimigraine 200 mg/day/man | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antimitral-valve-prolapse | |
| Antinephrolytic | |
| Antineurotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiosteoporotic 500-1,000 mg/day/wmn/orl | |
| Antiplateque 500-1,000 mg/day | |

| | |
|--------------------------------|--|
| Antiretinopathic 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antispasmodic | |
| Antispasmophilic 500 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antistress 500-750 mg/day | |
| Antistroke 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antisyndrome-X 400 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Anxiolytic 500-750 mg/day | |
| CNS-Depressant | Facciola, S. 1998. Cornucopia - A Source Book of Edible Plants. Kampong Publications, Vista CA. 713 pp. |
| Calcium-Antagonist | |
| Cardioprotective | |
| Diuretic | |
| Hypocholesterolemic 400 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Hypotensive 260-500 mg/day | |
| Immunomodulator | |
| Insulinogenic 400 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Laxative 300-500 mg/day | |
| Litholytic | |
| Myorelaxant 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Neurotransmitter | |
| Tranquilizer 500-750 mg/day | |
| Uterorelaxant 100 mg 4 x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Vasodilator | |

| | | | | | |
|--------------------------|-------|----|-----|-------|---|
| MAGNESIUM-LACTATE | Plant | -- | -- | * | |
| MANGANESE | Leaf | -- | 0.6 | -0.46 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

| Activities (14) | | | | | |
|---------------------------------|--|--|--|--|--|
| AntiPMS | | | | | |
| Antialcoholic | Forest H. Nielsen, USDA, Grand Forks, various publications. | | | | |
| Antianemic | Martindale's 28th | | | | |
| Antiarthritic | | | | | |
| Antidiabetic 3-5 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antidiabetic 10-30 mg/man/day | | | | | |
| Antidiscotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antidyskinetic | Martindale's 28th | | | | |
| Antiepileptic 450 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | | |
| Antiosteoporotic | | | | | |
| Antiototic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | | |
| Antioxidant | | | | | |
| Antisyndrome-X 10-30 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 | | | | |
| Hypoglycemic 10-30 mg/man/day | | | | | |

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|----------------|-------|----|----|--|---|
| MANNAN | Leaf | -- | -- | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| MANNOSE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |

| Activities (3) | | | | | |
|---|--|--|--|--|--|
| AntiUTI | | | | | |
| Antiadhesive | | | | | |
| Anticystitic 0.25-1 tsp 3-4 x/day orl man | | | | | |

| | | | | | |
|----------------|------|----|----|---|--|
| MANNOSE | Leaf | -- | -- | * | |
|----------------|------|----|----|---|--|

| Activities (3) | | | | | |
|---|--|--|--|--|--|
| AntiUTI | | | | | |
| Antiadhesive | | | | | |
| Anticystitic 0.25-1 tsp 3-4 x/day orl man | | | | | |

| | | | | | |
|----------------------|-------|----|----|--|---|
| MARGARIC-ACID | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|----------------------|-------|----|----|--|---|

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|----------------------------|--|----|------|---|
| MARGARIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| MONOOCTYLPHTHALATE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| MUCILAGE | Leaf | -- | -- | Segal, A., Taylor, J. A., Eoff III, J. C. 1968. A Re-Investigation of the Polysaccharide Material from Aloe vera mucilage. LLOYDIA 31(4): 423E. |
| Activities (3) | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Demulcent | | | | |
| Hypocholesterolemic | | | | |
| MUCILAGE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (3) | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Demulcent | | | | |
| Hypocholesterolemic | | | | |
| MUCOPOLYSACCHARIDES | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (1) | | | | |
| Immunostimulant | | | | |
| MYRISTIC-ACID | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| Activities (6) | | | | |
| Antioxidant IC71=60 | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Cosmetic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) | | | |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. | | | |
| MYRISTIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-DOCOSANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-EICOSANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-HENEICOSANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-HEPTADECANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-HEXADECANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-NONADECANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| N-OCTADECANE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| NATALOIN | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| NEOALOESIN-A | Leaf | -- | 6.6 | Park, M. K., Park, J. H., Shin, Y. G., Kim, W. Y., Lee, J. H., Kim, K. H. 1996. Neoaloesin A: A New C-Glucofuranosyl Chromone from Aloe barbadensis. Planta Medica, 62(4): 363-365. |
| NIACIN | Leaf | -- | 64.0 | -0.41 Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |

| Activities (39) | | | | |
|--------------------------------------|--|--|--|--|
| Allergenic | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| AntiLyme 50 mg/day | | | | |
| AntiMeniere's | Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705. | | | |
| AntiRaynaud's 1,500-4,000 mg/day | | | | |
| Antiacrodynic | | | | |
| Antiallergic 50 mg/2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antialzheimeran | | | | |
| Antiamblyopic | | | | |
| Antianginal | | | | |
| Anticataract | | | | |
| Antichilblain | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. | | | |
| Anticonvulsant 3 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antidementia | | | | |
| Antidermatitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | |
| Antidiabetic | | | | |
| Antidysphagic | | | | |
| Antiepileptic 3 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antihangover 50 mg | | | | |
| Antihistaminic 50 mg 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antihyperactivity 1.5-6 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antiinsomnic 1 g/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antineuralgic | | | | |
| Antiparkinsonian 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antipellagric | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. | | | |
| Antiscotomic | | | | |
| Antispasmodic 100 mg 2x/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. | | | |
| Antivertigo | | | | |
| Cancer-Preventive | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | |
| Cardioprotective | | | | |
| Circulotonic | | | | |
| Fibrinolytic | | | | |
| Hepatoprotective | | | | |
| Hepatotoxic | | | | |
| Hypocholesterolemic 50-100 mg 3x/day | | | | |
| Hypoglycemic | | | | |
| Hypolipidemic | | | | |
| Sedative | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | |
| Serotonergic | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | |
| Vasodilator | Martindale's 29th | | | |

NIACINAMIDE Plant -- -- *

| Activities (1) | | | | |
|---------------------|--|----|----|---|
| Antiinflammatory | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | |
| NONADEC-1-ENE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| NONADEC-TRANS-5-ENE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| OCTADEC-1-ENE | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

| Activities (1) | | | | |
|--|-------|----|----|---|
| Herbistat | | | | |
| OCTADEC-7-ENOIC-ACID | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| OCTADECA-10,13-DIENOIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| OCTADECA-6,9-DIENOIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

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|--|-------|----|----|---|
| OCTADEC-9,12-DIENOIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|--|-------|----|----|---|

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|------------|-------|----|----|--|
| OLEIC-ACID | Shoot | -- | -- | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhimi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
|------------|-------|----|----|--|

Activities (18)

5-Alpha-Reductase-Inhibitor

Allergenic

Alpha-Reductase-Inhibitor

Anemiagenic

Antialopecic

Antiandrogenic

Antiinflammatory
IC50=21 uM

Antileukotriene-D4
IC50=21 uM

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Choleretic 5 ml/man

Dermatitigenic

FLavor FEMA 1-30 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Hypocholesterolemic Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)

Insectifuge Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Irritant Merck 11th Edition

Percutaneostimulant Seki, T., Toeda, C., Kawaguchi, T., Juni, K., Sugibayashi, K., and Morimoto, Y. 1990. Enhanced Transdermal Delivery of Zidovudine in Rats and Human Skin. Chem. Pharm. Bull. 38(11): 3086-3089, 1990.

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Propecic

| | | | | |
|------------------------|-------|----|----|---|
| OLEIC-ACID-ETHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|------------------------|-------|----|----|---|

Activities (1)

Calcium-Antagonist 0.5 g/kg scu rbt

| | | | | |
|-------------------------|-------|----|----|---|
| OLEIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|-------------------------|-------|----|----|---|

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|-------------------------|-------|----|----|--|
| OLEIC-ACID-METHYL-ESTER | Shoot | -- | -- | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhimi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
|-------------------------|-------|----|----|--|

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|-----------------|------|----|----|--|
| OLIGOSACCHARIDE | Leaf | -- | -- | Mandal, G., Ghosh, R., Das, A. 1984. Characterisation of Polysaccharides of Aloe barbadensis Miller: Part III. Structure of an Acidic Oligosaccharide. Indian J. Chem. 22B: 890-893. |
|-----------------|------|----|----|--|

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|---------|-------|----|----|--|
| OXIDASE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
|---------|-------|----|----|--|

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|-----------------|------|----|----|--|
| P-COUMARIC-ACID | Leaf | -- | -- | Doff, W. 1953. In Vitro Tuberculostatic Action of Aloe and its Most Important Components. Arzneim-Forsch 3: 627-630. |
|-----------------|------|----|----|--|

Activities (25)

| | |
|--|---|
| Aldose-Reductase-Inhibitor 4 ug/ml (weak activity) | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110. |
| Allelopathic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antibacterial | Pharmazie, 46: 156, 1991. |
| Anticlastogen | |
| Antifertility | |
| Antihepatotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antileukemic IC50=25-56 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. Am J Chin Med, 31(1):37-46. |
| Antinitrosaminic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antioxidant IC24=30 ppm | |
| Antioxidant 1/3 BHA | |
| Antiperoxidant IC50=>100 uM | Planta Medica, 57: A54, 1991. |
| Antiseptic | |
| Antispasmodic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antitumor | |
| Cancer-Preventive | |
| Chemopreventive | |
| Choleretic | |
| Cytotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Diaphoretic? | Lawrence Review of Natural Products, Dec-90. |
| Fungicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Lipoxygenase-Inhibitor IC11=5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. J. Agric. Food Chem. 38: 688-690. |
| Pesticide | |
| Prostaglandigenic | |
| Prostaglandin-Synthesis-Inhibitor | |
| Tyrosinase-Inhibitor ID50=3,650 uM | |

P-COUMARIC-ACID

Plant

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Pakistan Encyclopedia Planta Medica. 1986.

Activities (25)

| | |
|--|---|
| Aldose-Reductase-Inhibitor 4 ug/ml (weak activity) | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110. |
| Allelopathic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antibacterial | Pharmazie, 46: 156, 1991. |
| Anticlastogen | |
| Antifertility | |
| Antihepatotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antileukemic IC50=25-56 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. Am J Chin Med, 31(1):37-46. |
| Antinitrosaminic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antioxidant IC24=30 ppm | |
| Antioxidant 1/3 BHA | |
| Antiperoxidant IC50=>100 uM | Planta Medica, 57: A54, 1991. |
| Antiseptic | |
| Antispasmodic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antitumor | |
| Cancer-Preventive | |
| Chemopreventive | |
| Choleretic | |
| Cytotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Diaphoretic? | Lawrence Review of Natural Products, Dec-90. |
| Fungicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Lipoxygenase-Inhibitor IC11=5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. J. Agric. Food Chem. 38: 688-690. |
| Pesticide | |
| Prostaglandigenic | |
| Prostaglandin-Synthesis-Inhibitor | |
| Tyrosinase-Inhibitor ID50=3,650 uM | |

P-COUMARIC-ACID

Juice

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Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-.

Activities (25)

| | |
|--|---|
| Aldose-Reductase-Inhibitor 4 ug/ml (weak activity) | Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110. |
| Allelopathic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antibacterial | Pharmazie, 46: 156, 1991. |
| Anticlastogen | |
| Antifertility | |
| Antihepatotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Antileukemic IC50=25-56 ug/ml | Chiang, L. C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. Am J Chin Med, 31(1):37-46. |
| Antinitrosaminic | Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY. |
| Antioxidant IC24=30 ppm | |
| Antioxidant 1/3 BHA | |
| Antiperoxidant IC50=>100 uM | Planta Medica, 57: A54, 1991. |
| Antiseptic | |
| Antispasmodic | Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. Herbal Medicine - A Guide for Health-care Professionals. The Pharmaceutical Press, London. 296pp. |
| Antitumor | |
| Cancer-Preventive | |
| Chemopreventive | |
| Choleretic | |
| Cytotoxic | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Diaphoretic? | Lawrence Review of Natural Products, Dec-90. |
| Fungicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Lipoxygenase-Inhibitor IC11=5 mM | Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. J. Agric. Food Chem. 38: 688-690. |
| Pesticide | |
| Prostaglandigenic | |
| Prostaglandin-Synthesis-Inhibitor | |
| Tyrosinase-Inhibitor ID50=3,650 uM | |

| | | | | |
|------------------------------|-------|----|----|---|
| P-METHOXY-HYDROCINNAMIC-ACID | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| P-METHOXYBENZYLACETONE | Plant | -- | -- | Pakistan Encyclopedia Planta Medica. 1986. |
| PALMITIC-ACID | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

Activities (13)

| | |
|-----------------------------|--|
| 5-Alpha-Reductase-Inhibitor | |
| Antiallopecic | |
| Antiandrogenic | |
| Antifibrinolytic | Economic & Medicinal Plant Research, 1: 53. |
| Antioxidant IC40=60 | |
| FLavor FEMA 1 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hemolytic | Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp. |
| Hypercholesterolemic | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Lubricant | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Nematicide | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Pesticide | |
| Propepic | |
| Soap | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |

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|---------------------------|-------|----|----|---|
| PALMITIC-ACID-ETHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
|---------------------------|-------|----|----|---|

Activities (1)

Calcium-Antagonist 0.5 g/kg scu rbt

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|----------------------------|-------|----|----|---|
| PALMITIC-ACID-METHYL-ESTER | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| PALMITOLEIC-ACID | Juice | -- | -- | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

| | | | | | | |
|--------------------------------------|-------|-----|--------|-------|---|---|
| Activities (2) | | | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | | | |
| Soap | | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp. |
| PALMITOLEIC-ACID-METHYL-ESTER | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| PECTIC-ACID | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| PENTADECANOIC-ACID | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| Activities (1) | | | | | | |
| Antioxidant IC40=60 | | | | | | |
| PHENYLALANINE | Leaf | -- | 7103.0 | -0.82 | * | |
| Activities (7) | | | | | | |
| AntiADD 587 mg/day/orl | | | | | | Martindale's 29th |
| Antidepressant 50-4,000 mg/day/man | | | | | | |
| Antiparkinsonian 200-500 mg/day/man | | | | | | Martindale's 28th |
| Antisickling 690 ug/ml | | | | | | |
| Antivilitigic 100 mg/kg/day/orl/man | | | | | | Martindale's 29th |
| Monoamine-Precursor | | | | | | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Tremorigenic 1,600-12,600 mg/man/day | | | | | | Martindale's 28th |
| PHOSPATIDIC-ACID | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhmi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| PHOSPHATIDYL-CHOLINE | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhmi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| Activities (2) | | | | | | |
| Antialzheimeran 10-25 g/day/orl | | | | | | |
| Antimanic 15-30 g/man/day/orl | | | | | | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| PHOSPHATIDYL-ETHANOLAMINE | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhmi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| PHOSPHATIDYL-INOSITOL | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhmi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| PHOSPHATIDYL-SERINE | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhmi, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| PHOSPHORUS | Leaf | 6.0 | 940.0 | -0.74 | * | |
| Activities (4) | | | | | | |
| Antiosteoporotic | | | | | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Anxiolytic | | | | | | |
| Immunostimulant | | | | | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| Osteogenic | | | | | | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine.</i> Avon Books, New York. 509pp. |
| PHYTOSTEROLS | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| Activities (2) | | | | | | |
| Antiprostatic | | | | | | |
| Hypocholesterolemic | | | | | | |
| POLYPHENOLS | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |

| Activities (30) | | | | | |
|---|---|--|--|--|--|
| Anthelmintic | | | | | |
| AntiHIV | | | | | |
| Antiangiogenic | | | | | |
| Antibacterial | | | | | |
| Anticariogenic | | | | | |
| Antidiarrheic | | | | | |
| Antidysenteric | | | | | |
| Antihepatotoxic | | | | | |
| Antihypertensive | | | | | |
| Antilipolytic | | | | | |
| Antimutagenic | | | | | |
| Antiophidic | Economic & Medicinal Plant Research, 5: 363. | | | | |
| Antioxidant IC50=1.44 ug/ml | | | | | |
| Antiradicular 500 mg/kg/day orl mu | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. | | | | |
| Antirenitic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. | | | | |
| Antitumor | | | | | |
| Antiulcer | | | | | |
| Antiviral | | | | | |
| Cancer-Preventive | HerbalGram No. 22 - Spring 1990, page 14. | | | | |
| Chelator | | | | | |
| Cyclooxygenase- Inhibitor | | | | | |
| Glucosyl- Transferase-Inhibitor | | | | | |
| Hepatoprotective | | | | | |
| Immunosuppressant | | | | | |
| Lipoxygenase- Inhibitor | | | | | |
| MAO-Inhibitor | | | | | |
| Ornithine- Decarboxylase- Inhibitor | | | | | |
| Pesticide | | | | | |
| Psychotropic | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990. | | | | |
| Xanthine-Oxidase- Inhibitor | | | | | |

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|----------------|-------|-------|-------|------|---|---|
| POLYSACCHARIDE | Leaf | -- | -- | | | Haq, Q. N., Hannan, A. 1981. Studies on Glucogalactomannan from the Leaves of Aloe vera. Bangladesh J. Sci. Ind. Res. 16: 68-72. |
| POLYSACCHARIDE | Juice | -- | -- | | | Gowda, D. C., Nellisiddaiah, B., Anjaneyalu, Y. V. 1979. Structural Studies of Polysaccharides from Aloe vera. Carbohydr. Res. 72: 201-205. |
| POLYSACCHARIDE | Plant | -- | -- | | | Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp. |
| POLYURONIDE | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| POTASSIUM | Leaf | 100.0 | 850.0 | -1.3 | * | |

| Activities (14) | | | | | | |
|---------------------------------|--|--|--|--|--|--|
| Angiotensin-Receptor-Blocker | | | | | | |
| Antiarrhythmic | | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidepressant | | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antifatigue | | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antihypertensive | | | | | | |
| Antispasmodic | | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antistroke | | | | | | |
| Anxiolytic | | | | | | |
| Beta-Blocker | | | | | | |
| Cardioprotective 3,000-5,000 mg | | | | | | |
| Cardiotoxic 18,000 mg/man/day | | | | | | |
| Diuretic | | | | | | |
| Hypotensive | | | | | | |
| Vasodilator | | | | | | |

| | | | | | | |
|---------|------|----|--------|-------|---|--|
| PROLINE | Leaf | -- | 3339.0 | -1.15 | * | |
|---------|------|----|--------|-------|---|--|

| | | | | | |
|----------------------|-------|---------|---------|-------|---|
| PROTEIN | Leaf | 10000.0 | 57000.0 | -1.54 | * |
| PROTEIN | Juice | -- | 25000.0 | | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-. |
| PROTEINASE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| PTEROYLGLUTAMIC-ACID | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| PURINE | Leaf | 1.0 | 56.0 | | Aloe Research Council - Duke writeup of non-peer reviewed book by Coats and draft by Henry |
| QUINONE | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
| RESIN | Plant | -- | -- | | Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980. |
| RESITANNOLS | Plant | -- | -- | | * |
| RHAMNOSE | Leaf | -- | -- | | Waller, G. R., Mangiafico, S., Ritchey, C. R. 1978. A Chemical Investigation of Aloe barbadensis. Proc. Okla. Acad. Sci. 58: 69-. |
| RHAMNOSE | Plant | -- | -- | | * |
| RHEIN | Juice | -- | -- | | Vittori, N., Collins, M. 1996. Production of Rhein and Rhein Derivatives for Treatment of Mycobacterial Infections. |

Activities (18)

| | |
|------------------------------------|--|
| Antibacterial | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Anticarcinomic | |
| Anticariogenic | |
| Anticytomegalovirus ED50=1.1 ug/ml | |
| Antineoplastic | |
| Antiplatelet ED50=0.6 ug/ml | |
| Antiseptic | |
| Antitumor | |
| Antiviral EC50=1.1 | |
| Antiviral ED50=0.61 ug/ml | |
| Calcium-Antagonist 9/10 aloemodin | |
| Candidicide | Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155. |
| Cathartic | |
| Cytotoxic CD50=3.4 ug/ml | |
| Fungicide | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Pesticide | |
| Proteinase-Inhibitor | |
| Purgative ED50=97.5 mg/kg orl mus | |

| | | | | | |
|-------|-------|----|----|--|--|
| RHEIN | Plant | -- | -- | | Pakistan Encyclopedia Planta Medica. 1986. |
|-------|-------|----|----|--|--|

| | |
|---|--|
| Antiangiogenic 230 ug/kg orl rat | |
| Antiarthritic | |
| Antiasthmatic | |
| Antiatherosclerotic | |
| Anticataract 400 ug/day | |
| Anticirrhotic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticlimacteric 200 ug/day | |
| Anticoronary 200 ug/day | |
| Antidandruff | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidepressant 200 ug/day | |
| Antidote (Mercury) | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antifibrotic 400 ug | |
| Antigout 200 ug | |
| Antikeshan | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antileukemic 1.6 mg/kg ipr mus | |
| Antileukotriene | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antimaculitic | |
| Antimelanomic 480 ug/kg | |
| Antimenopausal 200 ug/day | |
| Antimetastatic 480 ug/kg | |
| Antimyalgic 200 ug/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiosteoarthritic | |
| Antioxidant 100-200 (-400) ug/man/day | |
| Antiparkinsonian 200-400 ug/day | |
| Antiproliferant 2 uM | |
| Antiradicular 100-200 (-400) ug/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antirheumatic | |
| Antisyndrome-X 100-200 (-400) ug/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitumor 100-200 (-400) ug/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitumor (Breast) 333.6 ug/day | |
| Antitumor (Breast) 0.8 mg/kg scu mus | |
| Antitumor (Breast) 150 ug/kg diet rat | |
| Antitumor (Breast) 230 ug/kg orl rat | |
| Antitumor (Lung) 240 ug/kg diet | |
| Antitumor (Prostate) | |
| Antitumor (brain) 38-150 ug/kg | |
| Antiulcerogenic | Rafatullah, S., Tariq, M., Al-Yahya, M.A., Mossa, J.S., and Ageel, A.M. 1989. Evaluation of Turmeric (<i>Curcuma longa</i>) for Gastric and Duodenal Antiulcer Activity in Rats. <i>J. of Ethnopharmacology</i> , 29: 25-34, 1990. |
| Anxiolytic | |
| Apoptotic | |
| Cancer-Preventive | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Cardioprotective 200 ug/day | |
| Depressant | Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Boca Raton, 1983, 339 pp. |
| Fungicide | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Immunomodulator | |
| Immunostimulant 100-200 (-400) ug/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| NF-kB-Inhibitor | |
| Ornithine-Decarboxylase-Inhibitor | |
| Pesticide | |
| Polyamine-Synthesis-Inhibitor | |
| Prostaglandin-Sparer | Fujita, T., Nakatani, E., Funaishi, N., Sakuma, S., Fujimoto, Y. Potent inhibition of prostaglandin inactivation in rabbit gastric antral mucosal slices by selenium ions in-vitro. <i>J. Pharm. Pharmacol.</i> 42: 655-657, 1990. |
| Protein-Kinase-C-Inhibitor IC50=2-50 uM | |
| VEGF-Inhibitor | |

| Activities (1) | | | | | |
|-------------------------------|-------|------|-------|-------|---|
| Cancer-Preventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| SILICON | Leaf | -- | 2.2 | -0.41 | Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp. |
| Activities (4) | | | | | |
| Antiarteriosclerotic | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antionychotic | | | | | |
| Antiosteoporotic | | | | | |
| Cardioprotective | | | | | |
| SODIUM | Leaf | 40.0 | 510.0 | -0.56 | * |
| Activities (1) | | | | | |
| Hypertensive | | | | | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| SPHINGOMYELIN | Shoot | -- | -- | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
| STEARIC-ACID | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| Activities (8) | | | | | |
| 5-Alpha-Reductase-Inhibitor | | | | | |
| Cosmetic | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| FLavor FEMA 2-4,000 | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Hypocholesterolemic | | | | | Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.) |
| Lubricant | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| Perfumery | | | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| Propecic | | | | | |
| Suppository | | | | | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp. |
| STEARIC-ACID-ETHYL-ESTER | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |
| STEROIDS | Plant | -- | -- | | * |
| STIGMASTEROL | Shoot | -- | -- | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
| Activities (12) | | | | | |
| Antihepatotoxic | | | | | |
| Antiinflammatory | | | | | Lawrence Review of Natural Products, 1995 |
| Antinociceptive | | | | | |
| Antiophidic 2.3 mg ipr mus | | | | | Economic & Medicinal Plant Research, 5: 363. |
| Antioxidant IC33=10 uM | | | | | |
| Antiviral | | | | | Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991. |
| Artemicide LC50=110 ppm | | | | | Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry. 29(5): 1667-1670. 1990. |
| Cancer-Preventive | | | | | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp. |
| Estrogenic | | | | | |
| Hypocholesterolemic | | | | | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp. |
| Ovulant | | | | | |
| Sedative | | | | | |
| SULFOQUINOVOSYL-DIGLYCERIDE | Shoot | -- | -- | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. Plant Medica, 57(1): 38-40. |
| TANNINS | Plant | -- | -- | | * |
| TETRADECYLBENZENE | Juice | -- | -- | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352. |

THIAMIN Leaf -- 0.8 -1.56 Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities (31)

Analgesic 1-4 g/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

AntiLyme 50 mg

Antialcoholic 50-100 mg/day

Antialzheimeran 100-3,000 mg/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antianorectic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antibackache 1-4 g/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antiberiberi

Anticanker

Anticardiospasmic

Anticataract

Anticolitic

Antidecubitic

Antideliriant

Antidementia

Antidyspeptic

Antiencephalopathic Martindale's 29th

Antifatigue Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antigastritic Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Antihangover 50 mg

Antiheartburn

Antiherpetic

Antimigraine

Antimyocarditic

Antineuralgic 1-4 g/day Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antineurasthenic

Antineuritic

Antineuropathic 50 mg Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Antipoliomyelitic

Insectifuge 75-150 mg/man/day Martindale's 28th

Neuroprotective

Pesticide

THREITOL Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

THREONINE Leaf -- 14652.0 1.63 *

Activities (4)

Antioxidant?

Antiulcer Martindale's 29th

Essential Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

FLavor FEMA 1,000 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

TIN Leaf -- 11.0 -0.55 Pedersen, M. 1987. Nutritional Herbology. Pederson Publishing. Bountiful, Utah. 377 pp.

Activities (4)

Antiacne

Antibacterial

Pesticide

Taenicide Martindale's 28th

TRICOSANOIC-ACID-METHYL-ESTER Juice -- -- Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.

TRIDECYLBENZENE Juice -- -- Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. Biosci Biotech Biochem 57(8): 1350-1352.

TRIHYDROXYMETHYLANTHRAQUINONE Plant -- -- Pakistan Encyclopedia Planta Medica. 1986.

| | | | | | | |
|--|--|------|----------|-------|---|--|
| TRIOLEIN | Shoot | -- | -- | | | Afzal, M., Ali, M., Hassan, R. A. H., Sweedan, N., Dhami, M. S. I. 1991. Identification of Some Prostanoids in Aloe vera Extracts. <i>Plant Medica</i> , 57(1): 38-40. |
| Activities (1) | | | | | | |
| Antiaagregant | | | | | | |
| TYROSINE | Leaf | -- | 5073.0 | -0.81 | * | |
| Activities (8) | | | | | | |
| Antidepressant? | | | | | | |
| Antiencephalopathic | Martindale's 29th | | | | | |
| Antiparkinsonian 100 mg/kg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | | | |
| Antiphenylketonuric | Martindale's 29th | | | | | |
| Antiulcer 256 mg scu | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | | | |
| Antiulcer 400 mg/kg ipr rat | Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. <i>Drug Dosage in Laboratory Animals: A Handbook</i> . (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006. | | | | | |
| Cancer-Preventive | Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp. | | | | | |
| Monoamine-Precursor | Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf). | | | | | |
| UNDECYL-CYCLOHEXANE | Juice | -- | -- | | | Yamaguchi, I., Mega, N., Sanada, H. 1993. Components of the Gel of Aloe vera (L.) Burm. F. <i>Biosci Biotech Biochem</i> 57(8): 1350-1352. |
| UREA | Leaf | -- | 10.0 | | | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry |
| URONIC-ACID | Plant | -- | -- | | | Pakistan Encyclopedia Planta Medica. 1986. |
| VALINE | Leaf | -- | 12769.0 | 0.02 | * | |
| Activities (3) | | | | | | |
| Antiencephalopathic | Martindale's 29th | | | | | |
| Essential | | | | | | |
| FLavor FEMA 1,000-2,000 | Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry | | | | | |
| WATER | Plant | -- | 995000.0 | 0.96 | | Pedersen, M. 1987. <i>Nutritional Herbology</i> . Pederson Publishing. Bountiful, Utah. 377 pp. |
| XYLOSE | Leaf | -- | -- | | | * |
| Activities (3) | | | | | | |
| Antidiabetic | | | | | | |
| Diagnostic | Martindale's 28th | | | | | |
| Dye | Merck 11th Edition | | | | | |
| XYLOSE | Plant | -- | -- | | | Leung, A.Y., <i>Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics</i> , John Wiley & Sons, New York, 1980. |
| Activities (3) | | | | | | |
| Antidiabetic | | | | | | |
| Diagnostic | Martindale's 28th | | | | | |
| Dye | Merck 11th Edition | | | | | |
| ZINC | Leaf | 11.0 | 770.0 | 4.2 | * | |
| Activities (77) | | | | | | |
| ACE-Inhibitor | | | | | | |
| Analgesic | | | | | | |
| AntiBPH 25-60 mg/day | | | | | | |
| AntiCrohn's | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | | |
| AntiHIV | | | | | | |
| Antiacne 135 mg/day | | | | | | |
| Antiacrodermatitic 8-34 mg/day/orl/chd | Martindale's 29th | | | | | |
| Antialcoholic | | | | | | |
| Antialopepic | Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp. | | | | | |
| Antialzheimeran 50 mg/day | Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp. | | | | | |
| Antiangiogenic | | | | | | |
| Antianorexic | Martindale's 29th | | | | | |

| | |
|--|--|
| Antiarthritic 50 mg/3x/day/orl/man | |
| Anticanker 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticataract 30 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Anticoeliac | Martindale's 28th |
| Anticold 50 mg | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticoilitic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Anticoronary 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidandruff | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antidementia | |
| Antidiabetic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antidote (Cadmium) | Let's Live, May 1989. |
| Antidysgeuzic | |
| Antieczemic 150 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiencephalopathic | Martindale's 29th |
| Antiepileptic 100 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antifibrotic 30 mg | |
| Antifuruncular 45 mg/3x/day/man | Martindale's 28th |
| Antihangover 15 mg | |
| Antiherpetic? 25-60 mg/day | |
| Antiimpotence | Martindale's 29th |
| Antiinfective 50 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiinfertility 60 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antiinsomniac | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antileptic | Martindale's 29th |
| Antileukonychic | |
| Antilymphomic | |
| Antimaculitic | |
| Antimetastatic | |
| Antineuropathic | |
| Antinyctalopic | |
| Antiobesity 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiosteoporotic | |
| Antiperiodontitic | |
| Antiplateque | Martindale's 29th |
| Antiprolactin | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antiprostatic 50 mg/man/day/orl | Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf). |
| Antirheumatic | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Antiseptic 50 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antispare-Tire 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antistomatitic 50 mg/man/3x/day | Martindale's 28th |
| Antisyndrome-X 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antitinnitic 60-120 mg/day | Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp. |
| Antitriglyceride 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Antiulcer 50 mg/3x/day/man | Martindale's 28th |
| Antiulcer 88 mg/rat/day/15 days | |
| Antiviral? | Martindale's 29th |
| Astringent | Martindale's 28th |
| Collagenic | |
| Copper-Antagonist | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Deodorant | Martindale's 29th |
| Detoxicant (Alcohol) | |
| Ergogenic | |
| Hypotensive 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Immunomodulator | |
| Immunostimulant | Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. |
| Immunosuppressant 300 mg/day/6 wks/orl/man | Martindale's 29th |
| Insulinogenic 30 mg/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Leptingenic 30-60 mg/man/day | Challem, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. Syndrome X - The complete nutritional program to prevent and reserve insulin resistance. John Wiley & Sons, New York. 272 pp. \$24.95 |
| Mucogenic | Li, K.M. Effect of zinc sulphate on acetic acid-induced gastric ulceration in rats. J. Pharm. Pharmacol. 42: 657-659, 1990. |

NF-kB-Inhibitor

Pesticide

Spermigenic 60 mg/day

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Testosteronigenic 60 mg/day

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Trichomonicide

Martindale's 29th

Vulnerary

Martindale's 28th