

P Rheum officinale

Common Name(s)

Chinese Rhubarb

How Used

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Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
30	(+)-CATECHIN	Rhizome	--	3628.6	-1.00000000000000002
30	(+)-CATECHIN	Plant	--	--	
38	(-)-EPICATECHIN	Rhizome	--	3437.5	
0	1,2,6-TRI-O-GALLOYL-GLUCOSE	Rhizome	--	365.7	
0	1,8,6-TRIHYDROXY-3-METHYLANTHRAQUINONE	Plant	--	--	
0	1,8-DIHYDROXY-3-CARBOXYANTHRAQUINONE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1,8-DIHYDROXY-3-HYDROXYMETHYLANTRHAQUINONE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	1,8-DIHYDROXY-3-METHYLANTHRAQUINONE	Plant	--	--	
0	1,8-DIHYDROXY-6-METHOXY-3-METHYLANTHRAQUINONE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	1-O-GALLOYL-GLYCEROL	Plant	--	--	
0	3,3'-DI-O-GALLOYLPROCYANIDIN-B-2	Rhizome	--	1514.3	
0	3-O-GALLOYL-PROCYANIDIN-B-1	Rhizome	--	771.4	
0	6-O-GALLOYL-GLUCOSE	Plant	--	--	
24	ALOE-EMODIN	Root	--	--	
24	ALOE-EMODIN	Rhizome	--	--	
24	ALOE-EMODIN	Plant	--	--	
24	ALOE-EMODIN	Bulb	--	--	
0	ALOE-EMODIN-8-MONO-BETA-D-GLUCOSIDE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	ALOE-EMODIN-8-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
0	ANTHRACENES	Root	30000	50000	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
6	ANTHRAQUINONES	Root	50000	50000	1.3513884921632264
6	ANTHRAQUINONES	Rhizome	--	--	
0	ANTHRONES	Root	--	--	
0	BETA-D-GLUCOGALLIN	Root	--	--	
102	CAFFEIC-ACID	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
4	CALCIUM-OXALATE	Root	60000	60000	2.4399617861191483
0	CATECHIN-TANNINS	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	CHRYSAFANOL	Root	--	--	
6	CHRYSOPHANIC-ACID	Root	--	--	
6	CHRYSOPHANIC-ACID	Bulb	--	--	
6	CHRYSOPHANIC-ACID	Rhizome	--	--	
10	CHRYSOPHANOL	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	CHRY SOPHANOL-1-MONO-BETA-D-GLUCOSIDE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	CHRY SOPHANOL-1-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
0	CHRY SOPHANOL-8-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
18	CINNAMIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
4	D-CATECHIN	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	D-CATECHOL	Root	--	--	Chemical Constituents of Oriental Herbs (3 diff. books)
0	D-EPICATECHIN-GALLATE	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	DIISOBUTYL-PHTHALATE	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
58	EMODIN	Root	3000	9000	1.2993201981258473

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
58	EMODIN	Bulb	--	--	
58	EMODIN	Rhizome	--	--	
58	EMODIN	Plant	--	--	
0	EMODIN-1-MONO-BETA-D-GLUCOSIDE?	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EMODIN-6-MONOGLUCOSIDE	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	EMODIN-8-MONO-BETA-D-GLUCOSIDE?	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	EMODIN-8-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
61	FERULIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	FRANGULIC-ACID	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
8	FRUCTOSE	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
62	GALLIC-ACID	Rhizome	--	25.7	
62	GALLIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	GALLIC-ACID-3-O-BETA-D-(6'-O-GALLOYL)-GLUCOPYRANOSIDE	Plant	--	--	
0	GALLIC-ACID-4-O-BETA-D-(6'-O-GALLOYL)-GLUCOPYRANOSIDE	Plant	--	--	
0	GLUCOGALLIN	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	GLUCOSE	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	ISOLINDLEYIN	Plant	--	--	
3	LINDLEYIN	Rhizome	--	1345.7	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
18	OLEIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
9	OXALIC-ACID	Rhizome	--	--	
0	PALMIDIC-B	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.
0	PALMIDIN-C	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.
13	PALMITIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	PARIETIN	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

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24	PECTIN	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	PHENYL-PROPIONIC-ACID	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
5	PHYSCION	Root	--	--	
5	PHYSCION	Bulb	--	--	
5	PHYSCION	Rhizome	--	--	
0	PHYSCION-1-MONO-BETA-D-GLUCOSIDE?	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PHYSCION-8-MONO-BETA-D-GLUCOSIDE?	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	PHYSCION-8-O-BETA-D-GENTIOBIOSIDE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
2	PHYTOSTEROLS	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
8	PICEATANNOL	Plant	--	--	
0	PICEATANNOL-4'-O-(6''-O-GALLOYL)-BETA-D-GLUCOPYRANOSIDE	Plant	--	8333.3	
0	PICEATANNOL-4'-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	33333.3	
0	REIDIN-C	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.
0	RESIN	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
0	RESVERATROL-4'-O-(6''-O-GALLOYL)-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
0	RESVERATROL-4'-O-BETA-D-GLUCOPYRANOSIDE	Plant	--	--	
0	RHAMNOXANTHIN	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
1	RHAPONTICIN	Root	--	--	

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0	RHATANNIN	Root	--	--	
0	RHATANNIN	Rhizome	--	28571.4	
18	RHEIN	Plant	--	--	
18	RHEIN	Rhizome	--	--	
18	RHEIN	Root	--	27	-1
0	RHEIN-8-MONOGLUCOSIDE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
0	RHEINOSIDE-A	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHEINOSIDE-A	Rhizome	--	19971.8	
0	RHEINOSIDE-B	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHEINOSIDE-B	Rhizome	--	5126.8	
0	RHEINOSIDE-C	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHEINOSIDE-C	Rhizome	--	3718.3	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	RHEINOSIDE-D	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	RHEINOSIDE-D	Rhizome	--	6422.5	
0	RHEINOSIDES	Root	12900	12900	
0	RHEUM-EMODIN	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
87	RUTIN	Root	--	--	Leung, A.Y., Encyclopedia of Common Natural Ingredients Used in Food, Drugs, and Cosmetics, John Wiley & Sons, New York, 1980.
87	RUTIN	Plant	--	13000	-0.48658427928331677
0	SENNIDIN-C	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.
1	SENNOSIDE-A	Plant	--	--	
0	SENNOSIDES-A	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	SENNOSIDES-A	Rhizome	--	--	
0	SENNOSIDES-B	Rhizome	--	--	
0	SENNOSIDES-B	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SENNOSIDES-C	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SENNOSIDES-D	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SENNOSIDES-E	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
0	SENNOSIDES-F	Root	--	--	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
5	STARCH	Root	150000	160000	-0.6514767798388345
0	STILBENE-GLYCOSIDES	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.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference Citation
0	VEROSTEROL?	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.