

**RHATANY  
FOR HOMOEOPATHIC PREPARATIONS**

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***Krameria triandra* ad praeparationes homoeopathicas**

The herbal drug complies with the requirements of monograph *Rhatany root* (0289).

**STOCK**

**DEFINITION**

Rhatany mother tincture complies with the requirements of the general technique for the preparation of mother tinctures (see *Homoeopathic Preparations* (1038) and French Pharmacopoeia Authority Supplement). The mother tincture is prepared with ethanol (65 per cent V/V), using the dried, usually fragmented, underground organs of *Krameria triandra* Ruiz and Pavon.

*Content*: minimum 0.4 per cent *m/m* of tannins, expressed as pyrogallol (C<sub>6</sub>H<sub>6</sub>O<sub>3</sub>; *M<sub>r</sub>* 126.1).

**CHARACTERS**

*Appearance*: reddish-brown liquid.

**IDENTIFICATION**

Thin-layer chromatography (2.2.27).

*Test solution*. To 10 mL of mother tincture, add 10 mL of *light petroleum R* and shake. Separate the ether phase, add 2 g of *anhydrous sodium sulfate R*, shake and filter. Evaporate the filtrate to dryness. Dissolve the residue in 0.5 mL of *methanol R*.

*Reference solution*. Dissolve 10 mg of *dichlorophenolindophenol sodium salt R* and 5 mg of *Sudan red G R* in 10 mL of *methanol R*.

*Plate*: TLC silica gel plate *R*.

*Mobile phase*: *ethyl acetate R*, *toluene R* (2:98 V/V).

*Application*: 10 µL, as bands.

*Development*: over a path of 15 cm.

*Drying*: in air.

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*The General Chapters and General Monographs of the European Pharmacopoeia and Preamble of the French Pharmacopoeia apply.*

*Detection:* spray with a 5 g/L solution of *fast blue B salt R*. Allow the plate to dry in air, then spray with 0.1 M ethanolic sodium hydroxide solution. Examine in daylight.

*Results:* see below the sequence of zones present in the chromatograms obtained with the reference solution and the test solution. Furthermore other faint zones may be present in the chromatogram obtained with the test solution.

Top of the plate	
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Sudan red G: a red zone	A purple zone (phenol I of rhatany) A brownish zone (phenol II of rhatany) A bluish-grey zone (phenol III of rhatany)
Dichlorophenolindophenol: a greyish-blue zone	
<b>Reference solution</b>	<b>Test solution</b>

#### TESTS

**Ethanol** (2.9.10): 60 per cent V/V to 70 per cent V/V.

**Dry residue** (2.8.16): minimum 1.2 per cent *m/m*.

#### ASSAY

Carry out the determination of tannins in herbal drugs (2.8.14). Use 7.50 g of mother tincture.

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