

**WITCH HAZEL
FOR HOMOEOPATHIC PREPARATIONS****HAMAMELIS
FOR HOMOEOPATHIC PREPARATIONS****Hamamelis virginiana (folium and cortex)
ad praeparationes homoeopathicas**Other Latin name used in homoeopathy: **Hamamelis virginiana****LEAF**The herbal drug complies with the requirements of monograph *Hamamelis leaf (0909)*.**BARK**The herbal drug complies with the requirements of monograph *Hamamelis bark (2532)*.**STOCK****DESCRIPTION**The mother tincture is prepared with *ethanol* (55 per cent V/V), using equal parts of the dried leaf and stem bark of *Hamamelis virginiana* L.*Content*: minimum 0.25 per cent *m/m* of tannins, expressed as pyrogallol (C₆H₆O₃; *M_r* 126.1).**PRODUCTION***Method 1.1.10 (2371)*. Maceration time: 3-5 weeks.**CHARACTERS***Appearance*: brown liquid.**IDENTIFICATION**

Thin-layer chromatography (2.2.27).

Test solution. Mother tincture.

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

Reference solution. Dissolve 0.1 g of *gallic acid R*, 0.025 g of *quercetin dihydrate R* and 0.1 g of *kaempferol R* in 10 mL of *ethanol R* (60 per cent V/V) *R* and dilute to 100 mL with the same solvent.

Plate: TLC silica gel plate *R*.

Mobile phase: *anhydrous formic acid R*, *ethyl formiate R*, *toluene R* (1:4:5 V/V/V).

Application: 20 µL, as bands.

Development: over a path of 10 cm.

Drying: in air

Detection: first spray with a 10 g/L solution of *diphenylboric acid aminoethyl ester R* in *methanol R* then with a 50 g/L solution of *macrogol 400 R* in *methanol R*. Allow the plate to dry in air for about 30 min. Examine in ultraviolet light at 365 nm.

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

Top of the plate	
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Kaempferol: a green-yellow zone Quercetin: an orange-yellow zone	A green-yellow zone (kaempferol) An orange-yellow zone (quercetin)
Gallic acid: a dark blue zone	A dark blue zone A dark blue zone (gallic acid)
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Reference solution	Test solution

TESTS

Ethanol (2.9.10): 50 per cent V/V to 60 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.

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

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