

**HOP STROBILE
FOR HOMOEOPATHIC PREPARATIONS**

**HUMULUS LUPULUS SICCCUM
FOR HOMOEOPATHIC PREPARATIONS**

Humulus lupulus siccum ad praeparationes homoeopathicas

The herbal drug complies with the requirement of monograph *Hop strobile* (1222).

STOCK

DEFINITION

Hop strobile 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 (55 per cent V/V), using the dried female inflorescence of *Humulus lupulus* L.

CHARACTERS

Appearance: orange liquid.

Strong, characteristic odour.

IDENTIFICATION

Thin layer chromatography (2.2.27).

Test solution. Mother tincture.

Reference solution. Dissolve 2.0 mg of *curcumin R* and 2.0 mg of *imethylaminobenzaldehyde R* in 20 mL of *methanol R*.

Plate: TLC silica gel GF₂₅₄ plate R.

Mobile phase: anhydrous acetic acid R, ethyl acetate R, cyclohexane R (2:38:60 V/V/V).

Application: 20 µL, as bands.

Development: over a path of 15 cm.

Drying: in air.

Detection A: examine in ultraviolet light at 254 nm.

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

Results A: see below the sequence of quenching zones present in the chromatograms of the reference solution and the test solution.

Top of the plate	
Dimethylaminobenzaldehyde : a dark zone Curcumin : a faint zone	Faint dark zones (lupulones) Dark zones (humulones) A faint zone (xanthohumol)
Reference solution	Test solution

Detection B: examine in ultraviolet light at 365 nm.

Results B: see below the sequence of fluorescent zones present in the chromatograms of the reference solution and the test solution.

Top of the plate	
	Blue zones (lupulones) Brown zones (humulones) A dark brown zone (xanthohumol)
Reference solution	Test solution

Detection C: spray with *dilute phosphomolybdotungstic reagent R*. Expose the plate to ammonia vapours. Examine in daylight.

Results C: see below the sequence of zones present in the chromatograms of the reference solution and the test solution.

Top of the plate	
Dimethylaminobenzaldehyde : a blue-grey to brown-grey zone Curcumin : a blue-grey to brown-grey zone	Blue-grey zones (lupulones) Blue-grey zones (humulones) A green-grey zone (xanthohumol)
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 2.0 per cent *m/m*.

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