H 5.2.2b Preservation of fresh plants in ethanol

californica (Hook. et Arn.) Nutt ...

GHP 2015 ... (L.) Gaertn. Solanum dulcamara L. Solidago virgaurea L. Symphytum officinale L. Taraxacum officinale Wiggers
Teucrium marum L. Thuja occidentalis L. Trillium erectum L. Triosteum perfoliatum L. Tsuga canadensis (L.) Carrière Umbellularia

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Tussilago farfara >



Thuja occidentalis

Thuja

Fresh, leafy, one-year-old twigs of Thuja occidentalis L.

Description

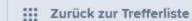
The fresh leaves develop a very strong, balsamic odour when crushed.

One-year-old twigs are still herbaceous or very slightly lignified and are profusely branched. The small, scale-like leaves are arranged in four rows and lie close to the stem. They are narrowly lineal on young trees, broadly triangular on mature trees, closely appressed to the stem and imbricate. Their underside shows little or no concavity and is lighter in colour, without whitish stomatal lines. The dorsal and ventral leaves (middle leaves) each have a dorsal resin gland, which is absent on the lateral leaves. The leafy branches are dark green on top and significantly lighter in colour on the underside.

The ends of the branches may bear very small, spheroidal to ovoid, cone-like, brownish yellow male flowers or yellow-green female flowers.

Dosage forms

The mother tincture contains minimum 0.10 and maximum 0.50 per cent (m/m) of total thujone, calculated as α -thujone (C₁₀ H₁₆ O; M_r 152.2).



» Monographs A-Z » T » Thuja occidentalis



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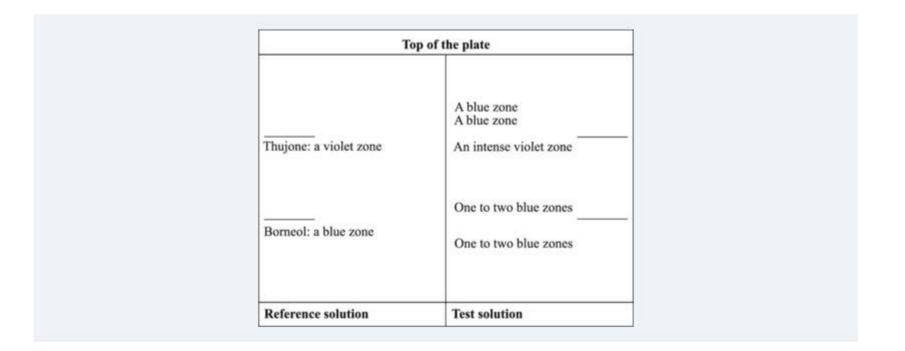


Application: 10 µl; as bands of 20 mm

Development: over a path of 10 cm

Detection: Allow the mobile phase to evaporate, then ▶ treat ◀ the plate with **ethanolic phosphomolybdic acid** solution *RH*, heat at 100 to 105 °C for 5 to 10 min and examine the chromatograms in daylight.

Results: See below the sequence of the zones present in the chromatograms obtained with the reference solution and the test solution. Additional zones may be present in the chromatogram obtained with the test solution.



Tests

Relative density (2.2.5): ▶ 0.905 to 0.925 ◀

Dry residue (H 2.2.6): minimum 3.5 per cent