

Status: Currently Official on 16-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
DocId: GUID-2B82E7DA-B2C3-4A59-A2B5-42886FC53B24_1_en-US
DOI: https://doi.org/10.31003/USPNF_M66000_01_01
DOI Ref: 7663k

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Podophyllum Resin

» Podophyllum Resin is the powdered mixture of resins extracted from Podophyllum by percolation with Alcohol and subsequent precipitation from the concentrated percolate upon addition to acidified water. It contains not less than 40.0 percent and not more than 50.0 percent of hexane-insoluble matter.

[**CAUTION**—Podophyllum Resin is highly irritating to the eye and to mucous membranes in general.]

Packaging and storage—Preserve in tight, light-resistant containers.

Identification—

- A:** It is soluble in 1 N potassium hydroxide or in 1 N sodium hydroxide, forming a yellow liquid, which gradually becomes darker on standing and from which the resin is precipitated by hydrochloric acid.
- B:** A hot solution of it deposits most of its solids on cooling, and if the cooled liquid is filtered, the filtrate turns brown upon the addition of a few drops of ferric chloride TS.

RESIDUE ON IGNITION (281): not more than 1.5%.

Distinction from resin of Indian podophyllum—Add 400 mg to 3 mL of 60 percent alcohol, then add 0.5 mL of 1 N potassium hydroxide, shake the mixture gently, and allow to stand for 2 hours: it does not gelatinize.

Hexane-insoluble matter—Transfer about 1 g of Podophyllum Resin, accurately weighed, to a glass-stoppered, 100-mL conical flask, add 30.0 mL of chloroform, insert the stopper tightly, and shake for 30 minutes, using a mechanical wrist-action shaker, or equivalent. Filter with suction through a medium- or fine-porosity, sintered-glass filter, into a small filter flask. Wash the conical flask and the filter with two 5-mL portions of chloroform, adding the washings to the filtrate. Transfer the filtrate with the aid of chloroform to a 50-mL volumetric flask, add chloroform to volume, and mix. Pipet 20 mL of the resulting solution into a 250-mL conical flask containing 160 mL of solvent hexane. Gently swirl, allow to stand for 10 minutes, and transfer the resulting precipitate to a tared, fine-porosity, sintered-glass filter, wash the flask and the precipitate with two 20-mL portions of solvent hexane, dry the precipitate at 70° for 1 hour, and weigh the *Hexane-insoluble matter* so obtained. Multiply by 2.5 to find the amount present in the quantity of Podophyllum Resin taken.

Auxiliary Information - Please [check for your question in the FAQs](#) before contacting USP.

Topic/Question	Contact	Expert Committee
PODOPHYLLUM RESIN	Nam-Cheol Kim Scientific Liaison	BDSHM2020 Botanical Dietary Supplements and Herbal Medicines
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	BDSHM2020 Botanical Dietary Supplements and Herbal Medicines

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. Information currently unavailable

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