

Status: Currently Official on 15-Feb-2025
Official Date: Official Prior to 2013
Document Type: USP Monographs
DocId: GUID-3B76FE4E-5F77-4124-A9B0-7E3FE2DE0A1D_1_en-US
DOI: https://doi.org/10.31003/USPNF_M39930_01_01
DOI Ref: 0r5pv

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Ichthammol Ointment

DEFINITION

Ichthammol Ointment contains an amount of ichthammol equivalent to NLT 0.25% of ammonia (NH_3).

Ichthammol	100 g
Lanolin	100 g
Petrolatum	800 g
To make	1000 g

Thoroughly incorporate the *Ichthammol* with the *Lanolin*, and combine this mixture with the *Petrolatum*.

ASSAY

• AMMONIA

Sample: Transfer a portion of the Ointment, equivalent to 2 g of ichthammol, to a 250-mL beaker, and add 70 mL of boiling water. Mix with a glass rod, and heat on a steam bath with frequent agitation for 10 min. Cover with a watch glass without removing the stirring rod, and allow to stand at room temperature for 15–20 min. Place in a refrigerator to cause the upper layer to congeal, form a second opening through the congealed layer with the glass rod, and transfer the dark-colored aqueous extract to a funnel containing a pledge of cotton, collecting the filtrate in a 500-mL volumetric flask. Repeat the extraction of the portion of the Ointment several times in the same manner until the aqueous extract is practically colorless, passing each extract through the same cotton filter into the flask containing the main extract. Dilute with water to volume, and mix.

Titrimetric system

Mode: Residual titration

Titrant: 0.05 N sulfuric acid VS

Back-titrant: 0.05 N sodium hydroxide VS

Endpoint detection: Colorimetric

Analysis: Transfer 100.0 mL of the *Sample* to a suitable distillation flask, add 3 g of paraffin, and add 20 mL of sodium hydroxide solution (4 in 10). Connect the flask to a condenser by means of a spray trap, and immerse the lower outlet tube of the condenser in 30.0 mL of *Titrant*. Distill slowly, collect about 50 mL of distillate, and then titrate the excess sulfuric acid with *Back-titrant*, using methyl red TS as the indicator. Perform a blank determination, and make any necessary correction. Each mL of *Titrant* is equivalent to 0.8515 mg of ammonia (NH_3).

Acceptance criteria: NLT 0.25% of ammonia (NH_3)

ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Package in collapsible tubes or in tight containers. Avoid prolonged exposure to temperatures exceeding 30°.

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

Topic/Question	Contact	Expert Committee
ICHTHAMMOL OINTMENT	Brian Serumaga Science Program Manager	CMP2020 Compounding 2020
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	CMP2020 Compounding 2020

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. Information currently unavailable

Current DocID: **GUID-3B76FE4E-5F77-4124-A9B0-7E3FE2DE0A1D_1_en-US**

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