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Tolu Balsam

DEFINITION

Tolu Balsam is a balsam obtained from *Myroxylon balsamum* (L.) Harms (Fam. Leguminosae).

SPECIFIC TESTS

• ROSIN, ROSIN OIL, AND COPAIBA

Sample: 1 g, powdered or crushed, if necessary

Analysis: Place the *Sample* in a small mortar, and add 10 mL of petroleum benzin. Triturate well for 1–2 min, filter into a test tube, and to the filtrate so obtained, add 10 mL of freshly prepared cupric acetate solution (5 mg/mL). Shake, and allow the phases to separate.

Acceptance criteria: The petroleum benzin layer does not show a green color.

• FATS AND FIXED OILS, [Acid Value\(401\)](#)

Sample solution: 1 g in 50 mL of neutralized alcohol

Analysis: Add phenolphthalein TS, and titrate with 0.5 N alcoholic potassium hydroxide VS.

Acceptance criteria: 112–168

• FATS AND FIXED OILS, [Saponification Value\(401\)](#)

Sample solution: Add sufficient 0.5 N alcoholic potassium hydroxide VS to the neutralized liquid obtained in the test for *Acid Value* to make the total volume of the alkali solution added 20.0 mL, heat the liquid on a steam bath for 30 min under a reflux condenser, and cool. Add 200 mL of water, or more if necessary.

Titrimetric system

(See [Titrimetry\(541\)](#).)

Mode: Residual titration

Titrant: 0.5 N alcoholic potassium hydroxide VS

Back-titrant: 0.5 N hydrochloric acid VS

Endpoint detection: Visual

Analysis: Titrate the excess potassium hydroxide in the *Sample solution* with *Back-titrant*. Perform a blank determination.

Acceptance criteria: The total volume of *Titrant* consumed, including that required to neutralize the free acid in the determination of the *Acid Value*, is equivalent to a saponification value between 154 and 220.

ADDITIONAL REQUIREMENTS

• **PACKAGING AND STORAGE:** Preserve in tight containers, and avoid exposure to excessive heat.

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

Topic/Question	Contact	Expert Committee
TOLU BALSAM	Documentary Standards Support	CE2020 Complex Excipients
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	CE2020 Complex Excipients

Chromatographic Database Information: [Chromatographic Database](#)

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