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Tannic Acid

Tannin;
Tannic acid
CAS RN®: 1401-55-4; UNII: 28F9E0DJY6.

DEFINITION
Tannic Acid is a tannin usually obtained from nutgalls, the excrescences produced on the young twigs of *Quercus infectoria* Oliver, and allied species of *Quercus* L. (Fam. Fagaceae), from the seed pods of tara (*Caesalpinia spinosa*), or from the nutgalls or leaves of sumac (any of a genus *Rhus*).

IDENTIFICATION

- A.**
Sample solution: 100 mg/mL of Tannic Acid in [water](#)
Analysis: To 2 mL of the *Sample solution*, add 1 drop of [ferric chloride TS](#).
Acceptance criteria: A bluish black color or precipitate results
- B.**
Sample solution: 100 mg/mL of Tannic Acid in [water](#)
Analysis: Add an equal volume of 10 mg/mL of gelatin in [water](#) to the *Sample solution*.
Acceptance criteria: A precipitate is formed.

OTHER COMPONENTS

- GUM OR DEXTRIN**
Sample solution: Dissolve 2 g of Tannic Acid in 10 mL of hot [water](#). The solution is not more than slightly turbid. Cool, filter, and divide the filtrate into two equal portions. Use a portion of the filtrate.
Analysis: Add 10 mL of [alcohol](#) to the *Sample solution*.
Acceptance criteria: No turbidity is produced.
- RESINOUS SUBSTANCES**
Sample solution: A portion of the filtrate obtained in the test for *Gum or Dextrin*
Analysis: Add 10 mL of [water](#) to the *Sample solution*.
Acceptance criteria: No turbidity is produced.

IMPURITIES

- [RESIDUE ON IGNITION \(281\)](#): NMT 1.0%

Delete the following:

- ▲ [ARSENIC \(211\), Procedures, Method II](#): NMT 3 ppm▲ (USP 1-Aug-2022)

SPECIFIC TESTS

- [LOSS ON DRYING \(731\)](#)
Analysis: Dry at 105° for 2 h.
Acceptance criteria: NMT 12.0%

ADDITIONAL REQUIREMENTS

- PACKAGING AND STORAGE:** Preserve in tight, light-resistant containers.

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

Topic/Question	Contact	Expert Committee
TANNIC ACID	Documentary Standards Support	SM32020 Small Molecules 3

Topic/Question	Contact	Expert Committee
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM32020 Small Molecules 3

Chromatographic Database Information: [Chromatographic Database](#)

Most Recently Appeared In:

Pharmacopeial Forum: Volume No. 47(2)

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