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Potassium Iodide Tablets

DEFINITION

Potassium Iodide Tablets contain NLT 94.0% and NMT 106.0% of the labeled amount of potassium iodide (KI) for Tablets of 300 mg or more, and NLT 92.5% and NMT 107.5% for Tablets of less than 300 mg.

IDENTIFICATION

- **A.** [IDENTIFICATION TESTS—GENERAL, Potassium \(191\)](#) and [Iodide \(191\)](#): A filtered solution of powdered Tablets meets the requirements.

ASSAY

PROCEDURE

Sample solution: Transfer an equivalent to 1.2 g of potassium iodide, from finely powdered Tablets (NLT 20), to a 250-mL volumetric flask. Add 100 mL of water, shake for 20 min, and dilute with water to volume. Filter through paper, discarding the first 20 mL of the filtrate.

Analysis: Transfer 100.0 mL of the filtrate, 25 mL of alcohol, and 1.0 mL of 1 N nitric acid to a 200-mL beaker. Titrate with 0.1 N silver nitrate VS, using a silver indicator electrode and an appropriate reference electrode. Perform a blank determination (see [Titrimetry \(541\)](#)). Each mL of 0.1 N silver nitrate is equivalent to 16.60 mg of KI.

Acceptance criteria: 94.0%–106.0% of the labeled amount of potassium iodide (KI) for Tablets of 300 mg or more, and 92.5%–107.5% for Tablets of less than 300 mg

PERFORMANCE TESTS

- [DISSOLUTION \(711\)](#)

For Uncoated Tablets

Medium: Water; 900 mL

Apparatus 2: 50 rpm

Time: 15 min

Detector: UV 227 nm

Standard solution: Potassium iodide in *Medium*

Sample solution: Sample per [Dissolution \(711\)](#). Dilute with *Medium* to a concentration that is similar to the *Standard solution*.

Tolerances: NLT 75% (*Q*) of the labeled amount of potassium iodide (KI) is dissolved.

- [UNIFORMITY OF DOSAGE UNITS \(905\)](#): Meet the requirements

ADDITIONAL REQUIREMENTS

- **PACKAGING AND STORAGE:** Preserve in tight containers.

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

Topic/Question	Contact	Expert Committee
POTASSIUM IODIDE TABLETS	Documentary Standards Support	SM12020 Small Molecules 1
REFERENCE STANDARD SUPPORT	RS Technical Services RSTECH@usp.org	SM12020 Small Molecules 1

Chromatographic Database Information: [Chromatographic Database](#)

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