

Status: Currently Official on 16-Feb-2025
Official Date: Official as of 01-May-2013
Document Type: USP Monographs
DocId: GUID-DDAD1C30-2AF4-4036-9416-AE78E814D710_1_en-US
DOI: https://doi.org/10.31003/USPNF_M67650_01_01
DOI Ref: dr3vr

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Potassium Iodide Oral Solution

DEFINITION

Potassium Iodide Oral Solution contains NLT 94.0% and NMT 106.0% of the labeled amount of potassium iodide (KI). [NOTE—If Potassium Iodide Oral Solution is not to be used within a short time, add 0.5 mg of sodium thiosulfate for each g of KI. Products that have data to demonstrate acceptable stability without the addition of thiosulfate are exempt from this requirement. Crystals of potassium iodide may form in Potassium Iodide Oral Solution under normal conditions of storage, especially if refrigerated.]

IDENTIFICATION

- **A. IDENTIFICATION TESTS—GENERAL, *Potassium* (191) and *Iodide* (191):** Meets the requirements

ASSAY

PROCEDURE

Sample solution: 50 mg/mL of potassium iodide from Oral Solution in water
Analysis: Transfer 10.0 mL of the *Sample solution* to a 150-mL beaker, and add 40 mL of water, 25 mL of alcohol, and 1.0 mL of 1 N nitric acid. 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%

PERFORMANCE TESTS

- **UNIFORMITY OF DOSAGE UNITS (905):**
For Oral Solution packaged in single-unit containers: Meets the requirements
- **DELIVERABLE VOLUME (698):**
For Oral Solution packaged in multiple-unit containers: Meets the requirements

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
POTASSIUM IODIDE ORAL SOLUTION	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](#)

Most Recently Appeared In:
Pharmacopeial Forum: Volume No. PF 37(6)

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