



# Samrat Pharmachem Limited

Manufacturers & Exporters of Pharmaceutical Chemicals

## Regd. Office & Factory

Plot No. A2/3445, GIDC,  
Phase 4, Ankleshwar - 393002,  
Gujarat, India  
Tel: +91-7045456789 / 7046456789  
Web: www.samratpharmachem.com

CIN: L24230GJ1992PLC017820

## Corporate Office

701/702 Business Square,  
M. A. Road, Andheri (West),  
Mumbai - 400058, India  
Tel: +91-7507534567 / 8760345678  
E: contact@samratpharmachem.in

## Certificate of Analysis

Date : 14-Dec-2022		Certificate No. : 23/13	
Name of Sample	: Potassium Iodide	Grade	: LR
Batch No.	: 22122313		
Batch Size	: 500.00 KGS		
Mfg. Month	: December 2022		
Retest Month	: November 2025		
HSN Code	: 28276010	CAS No. :	7681-11-0
		EC No. :	231-659-4

Test Parameters	Results	Standard Limits
Description	White crystalline powder	White fine crystalline powder
Assay (dry basis)	99.53%	99.0 - 100.5 %
Iodine Content	76.09%	75.69 - 76.45%
Identification	7.50	Test A & B a per IP
Solubility ( 10 g in 100 ml water )	0.26%	Clear and colourless solution
Loss on drying ( 105 °C, 3 hours )	0.00%	0.2 - 1.0 %
Alkalinity ( KOH )	0.001%	0.00 - 0.024 %
Cyanide ( CN )	absent	absent
Iodates ( IO <sub>3</sub> )	0.00%	0.00 - 0.0002 %
Sulphate ( SO <sub>4</sub> )	0.00%	0.00 - 0.015 %
Thiosulphate ( S <sub>2</sub> O <sub>3</sub> )	0.00%	0.00 - 0.005 %
Arsenic ( As )	0.00%	0.00 - 0.0002 %
Barium ( Ba )	0.00%	0.00 - 0.002 %
Heavy metals ( as Pb )	0.00%	0.00 - 0.001 %
Iron ( Fe )	0.00%	0.00 - 0.002 %

**Test Result : PASSED**

QCF/120047

WQ023Pure

Approved By

ISO Doc No. : QCI/F/01/4

Analyzed By



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## Certificate of Analysis

<b>Date : 15-Dec-2022</b>	<b>Certificate No. : 23/15</b>
Name of Sample : <b>Potassium Iodide</b>	Grade : AR
Batch No. : 22122315	
Batch Size : 500.000 KGS	
Mfg. Month : December-2022	
Retest Month : November-2025	
HSN Code : 28276010	CAS No. : 7681-11-0
	EC No. : 231-659-4

Test Parameters	Results	Standard Limits
Description	White crystalline powder	White crystalline powder
Assay (Dry basis)	99.82 %	99.70% - 100.00%
Iodine Content	76.32 %	76.23% - 76.45%
pH (0% w/w in water)	7.40	6.00 - 8.00
Insoluble matter in water % w/w	0.00080 %	0.00080% - 0.00200%
Loss on Drying (110 Deg C, 2 hours)	0.19 %	0.15% - 0.20%
Chloride & Bromide (as Cl)	0.0005 %	0.0005% - 0.0500%
Iodate (IO <sub>3</sub> )	0.00000 %	0.00000% - 0.00020%
Phosphate (PO <sub>4</sub> )	0.00000 %	0.00000% - 0.00100%
Total Nitrogen (N)	0.00000 %	0.00000% - 0.00100%
Sulphate (SO <sub>4</sub> )	0.00060 %	0.00000% - 0.00200%
Arsenic (As)	0.00000 %	0.00000% - 0.00010%
Barium (Ba)	0.00000 %	0.00000% - 0.00100%
Calcium Group & Magnesium (Ca)	0.00000 %	0.00000% - 0.00100%
Copper (Cu)	0.00000 %	0.00000% - 0.00020%
Heavy Metals (as Pb)	0.00000 %	0.00000% - 0.00020%
Iron (Fe)	0.00000 %	0.00000% - 0.00030%
Sodium (Na)	0.000 %	0.000% - 0.050%
Iodine Reducing Substances (I)	Passes	Passes

**Test Result : PASSED**

QCF/120051

WQ023AR

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ISO Doc No. : QCI/F/01/4

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## Certificate of Analysis

<b>Date : 30-Jun-2023</b>	<b>Certificate No. : 57/01</b>		
Name of Sample	: Potassium Iodide	Grade : USP	
Batch No.	: 23065701		
Batch Size	: 500.00 KGS		
Mfg. Month	: May 2023		
Retest Month	: April 2026		
Drug Mfg.Lic. No.	: GJ/25/2625		
HSN Code	: 28276010	CAS No. : 7681-11-0	EC No. : 231-659-4

Test Parameters	Results	Standard Limits
Physical appearance	White or almost white powder or colour less crystals.	Hexahedral crystal, either transparent and colorless or somewhat opaque and white or a white granular powder.
Identification		
A) Iodide	Complies.	Meet the requirement of Iodide test.
B) Potassium	Complies.	Meet the requirement of potassium test.
Iodate	Passes	No blue colour develops
Limit of Nitrate, Nitrite and Ammonia	Complies.	No blue colour on the paper is discernible
Thiosulphate and Barium	Passes.	No turbidity develop within 1 minute
Loss On Drying	0.28 %	NMT 1.0%
Assay by titration (On dried basis)	99.52 %	99% - 101.5%

**Test Result : PASSED**

QCF/60049

WQ057USPE

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## Certificate of Analysis

Date : 14-Aug-2023		Certificate No. : 55/01	
Name of Sample	: Potassium Iodide	Grade : IP	
Batch No.	: 23085501		
Batch Size	: 500.00 KGS		
Mfg. Month	: August 2023		
Retest Month	: July 2026		
Drug Mfg.Lic. No.	: GJ/25/2625		
HSN Code	: 28276010	CAS No. : 7681-11-0	EC No. : 231-659-4

Test Parameters	Results	Standard Limits
Description	Colourless crystals or a white powder; odourless.	Colourless crystals or a white powder; odourless.
Identification		
Test A	Complies.	The solution gives the reactions of K <sup>+</sup> salts
Test B	Complies.	The solution gives the reactions of Iodide
Appearance of solution	Solution a is clear and colourless.	Solution a is clear and colourless.
Alkalinity	Complies.	No colour is produced on addition of phenolphthalein
Arsenic	Below the limit quantification	Max. 2ppm
Heavy Metals	Below the limit quantification	Max. 10ppm
Iron	Below the limit quantification	Max.20ppm
Barium	Complies.	No turbidity develops within one minute.
Cyanide	Complies.	No blue colour is produced.
Iodate	Complies.	No blue colour is produced within 2 minutes
Sulphate	70ppm	150 ppm
Thiosulphate	Complies.	A blue colour is produced
Loss on drying	0.30%	Note more than 1.0 %
Assay	99.45%	99.0 % to 100.5 %

**Test Result : PASSED**

QCF/80034

WQ055IPG

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## Certificate of Analysis

<b>Date : 29-Jun-2023</b>		<b>Certificate No. : 56/01</b>	
Name of Sample	: Potassium Iodide	Grade : BP	
Batch No.	: 23065601		
Batch Size	: 500.00 KGS		
Mfg. Month	: May 2023		
Retest Month	: April 2026		
Drug Mfg.Lic. No.	: GJ/25/2625		
HSN Code	: 28276010	CAS No. : 7681-11-0	EC No. : 231-659-4

Test Parameters	Results	Standard Limits
Physical appearance	White or almost white powder or colour less crystals.	White or almost white powder or colour less crystals.
Solubility	Passes.	Very soluble in water freely soluble in glycerol soluble in ethanol (96 %)
Identification	Passes test K <sup>+</sup> & I <sup>-</sup>	Give Positive Test For K <sup>+</sup> & I <sup>-</sup>
A) Iodide	Complies	Gives the reactions of iodides.
B) Potassium	Complies	Gives the reactions of potassium.
Appearance of solution	Solution is clear & colourless.	Solution is clear & colourless.
Alkalinity	0.1ml of 0.01 M Hydrochloric Acid consumed.	NMT 0.5 ml of 0.01 M Hydrochloric Acid is required.
Iodate	Passes	No blue colour develops
Sulphate	70 ppm	NMT 150 ppm
Thiosulphate	Passes.	No turbidity develop within 1 minute
Iron	Complies.	NMT 20 ppm
Loss On Drying	0.28 %	NMT 1.0%
Assay by titration(On dried basis)	99.52 %	99% - 100.5%

**Test Result : PASSED**

QCF/120049

WQ056BPE

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