

## CERTIFICATE OF ANALYSIS

<b>Product:</b> <i>Potassium Iodide, Laboratory grade</i>	<b>Batch No/Lot No:</b> 428.05.01-J09.21
<b>Order No.:</b> 428.05.00100.01	<b>Quantity:</b> 100g
	<b>Date of Production:</b> 09/10/2021
	<b>Retest Date:</b> 09/10/2024


Row	Test Item	Specification	Results	Reference
1	Description	Hexahedral crystals, either transparent & colorless or somewhat opaque & white, or a white, granular powder is slightly hygroscopic. Its solutions are neutral or alkaline to litmus.	<b>Conforms</b>	USP40
2	Solubility	Very soluble in water & even more soluble in boiling water, freely soluble in glycerin soluble in alcohol.	<b>Conforms</b>	USP40
3	Identification ( <i>Potassium</i> )	A violet color to a nonluminous flame	<b>Conforms</b>	USP40 <191>
4	Identification ( <i>Iodide</i> )	The solution, upon the addition of chlorine, drop wise, liberates iodine, which colors the solution yellow to red. When the solution is shaken with chloroform, the latter is colored violet. The iodine thus liberated gives a blue color with starch. Silver nitrate produces, in solutions of iodides, a yellow, cruddy precipitate that is insoluble in nitric acid & in 6N ammonium hydroxide.	<b>Conforms</b>	USP40 <191>
5	Alkalinity	No color is produced.	<b>Conforms</b>	USP40
6	Loss on drying	N.M.T 1.0%	<b>0.0</b>	USP40
7	Iodate	N.M.T 4.0 ppm	<b>&lt; 4.0</b>	USP40
8	Limit of nitrate, nitrite, & ammonia	No blue coloration of the paper is discernible	<b>Conforms</b>	USP40
9	Thiosulfate & barium	No turbidity develops within 1 minute	<b>Conforms</b>	USP40
10	Heavy metals	N.M.T 10ppm	<b>&lt; 10</b>	USP38 <231>
11	Assay	N.L.T 99.0 & N.M.T 101.5 % of KI calculated on dried basis.	<b>99.8</b>	USP40

QC. Manager: Ms. Iravani

Qualified Person: Dr. Mojallali

Status:

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