

## CERTIFICATE OF ANALYSIS

**Product:** *Potassium chloride*, Laboratory grade

**Order No.:** 408.05.01000.02

**Batch No/Lot No:** 408.05.03-B14.21

**Quantity:** 1Kg

**Date of Production:** 14/02/2021

**Retest Date:** 14/02/2023

Row	Test Item	Specification	Results	Reference
1	Description	Colorless, elongated, prismatic, or cubical crystals or white, granular powder. Is odorless, has a saline taste, and is stable in air. Its solutions are neutral to litmus.	<b>Conforms</b>	USP40
2	Solubility	Freely soluble in water; insoluble 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 (Chloride)	With silver nitrate solutions of chloride yield a white, curdy precipitate that is insoluble in nitric acid but is soluble in slight excess of 6N ammonium hydroxide.	<b>Conforms</b>	USP40 <191>
5	Acidity or alkalinity	N.M.T 0.3ml of 0.020 N sodium hydroxide is required to produce a pink color.	<b>0.1</b>	USP40
6	Loss on drying	N.M.T 1.0 %	<b>0.2</b>	USP40 <731>
7	Iodide	N.M.T 50 ppm	<b>&lt; 50</b>	USP40
8	Bromide	N.M.T 0.1%	<b>&lt; 0.1</b>	USP40
9	Calcium & Magnesium	No turbidity is produced within 5 minutes.	<b>Conforms</b>	USP40
10	Heavy metals	N.M.T 10 ppm	<b>&lt; 10</b>	USP38<231>
11	Assay	Between 99.0 – 100.5 % on the dried basis.	<b>99.2</b>	USP40

**QC. Manager:** *A. Iravani*

**Status:**



**QC Approved**

**Qualified Person:** *Dr. Mojallali*

**Date:** 15.02.2021



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