D.R. MOJALLALI
Pharmaceutical Chemicals Industries Complex Co.

مجتمع صنایع شیمی دارویی
دکتر مجللی
تولید کننده مواد شیمیایی آزمایشگاهی و داروئی

CERTIFICATE OF ANALYSIS

***Product:* Sodium chloride**

Laboratory Analytical Reagent

Batch No: *407D25009805*
Order No.: *407.05*
Date of Analysis: *04/2025*
Retest Date: *04/2030*

Row	Test Item	Specification	Results
1	Description	Colorless, cubic crystals or white crystalline powder .Has saline taste.	**Conforms**
2	Solubility	Freely soluble in water, soluble in glycerin, slightly more soluble in boiling water, slightly soluble in alcohol.	**Conforms**
3	Appearance of solution	The solution is clear & colorless.	**Conforms**
4	Identification *(Sodium)*	With potassium pyroantimoanate a dense precipitate is formed & intense yellow color to a nonluminous flame.	**Conforms**
5	Identification *(Chloride)*	The precipitate dissolves easily with the possible exception of a few large particles, which dissolve more slowly.	**Conforms**
6	Acidity or alkalinity	N.M.T 0.0002 meq/g	**0.00002**
7	Barium	Any opalescence in the test solution is not more intense than that in the reference solution	**Conforms**
8	Ferrocyanides	No blue color develops in 10 minutes.	**Conforms**
9	Iodides	No blue color is observed.	**Conforms**
10	Limit of bromides	N.M.T 100 ppm	**<100**
11	Limit of phosphates	N.M.T 25 ppm	**<25**
12	Magnesium and alkaline- earth metals	N.M.T 100 ppm, calculated as Ca	**<100**
13	Nitrites	Absorbance is N.M.T 0.01	**0.004**
14	Sulfate	N.M.T 200 ppm	**<200**
15	Loss on drying	N.M.T 0.5% of its weight	**0.1**
16	Assay	Between 99.0% - 100.5% on the dried basis.	**99.9**

- Methods of analysis based on United States Pharmacopoeia 46.
- Specification corresponds to United States Pharmacopoeia 46.

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Impurities			
Row	**Test Item**	**Specification**	**Result**
1	Cd	≤ 2 ppm	≤ 2 ppm
2	Pb	≤ 2 ppm	≤ 2 ppm
3	As	≤ 1 ppm	≤ 1 ppm
4	Hg	≤ 2 ppm	≤ 2 ppm
5	Co	≤ 5 ppm	≤ 5 ppm
6	V	≤ 5 ppm	≤ 5 ppm
7	Ni	≤ 5 ppm	≤ 5 ppm
8	Heavy metals[1]	≤ 10 ppm	≤ 10 ppm
9	Ag	≤ 5 ppm	≤ 5 ppm
10	Bi	≤ 5 ppm	≤ 5 ppm
11	Cu	≤ 5 ppm	≤ 5 ppm
12	Mo	≤ 5 ppm	≤ 5 ppm
13	Sb	≤ 5 ppm	≤ 5 ppm
14	Sn	≤ 5 ppm	≤ 5 ppm
15	Fe	≤ 2 ppm	≤ 2 ppm
16	Al	≤ 0.2 ppm	≤ 0.2 ppm
17	Residual solvents (ICH Q3C) [2]	Excluded by manufacturing process	

1. Defined by American Chemical Society.
1. Summation of Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn.
2. Only water is used as solvent during manufacturing process.

QC. Manager: *Mr. Lahooti*

Status:

Qualified Person: *Dr. Mojallali*

QC Approved

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