



PureChemicals Incorporated

Supplier Certificate of Analysis

Lot/Batch Number: PC2024-0328

Product: Pharmaceutical Grade Sodium Chloride

Date of Manufacture: March 15, 2024

Date of Analysis: March 28, 2024

Physical Characteristics

The physical characteristics of our Pharmaceutical Grade Sodium Chloride have been meticulously evaluated to ensure optimal quality and performance. Our rigorous testing protocols focus on critical parameters that impact the material's usability and consistency in pharmaceutical applications.

Parameter	Specification	Test Result	Method
Appearance	White, crystalline powder	Complies	Visual Inspection
Particle Size	100-200 μm	185 μm	Laser Diffraction
Bulk Density	0.85-0.95 g/mL	0.90 g/mL	ASTM B212

Chemical Analysis

Our chemical analysis employs state-of-the-art analytical techniques to verify the purity, composition, and chemical stability of the sodium chloride. Each test is conducted with precision to meet the stringent requirements of pharmaceutical-grade materials.

Test	Specification	Result	Acceptance Criteria
Purity	$\geq 99.5\%$	99.7%	Titration Method
Moisture Content	$\leq 0.1\%$	0.07%	Karl Fischer
Heavy Metals	≤ 10 ppm	5.2 ppm	ICP-MS
pH (1% Solution)	6.5-7.5	7.2	Potentiometric

Microbiological Testing

Microbiological testing is critical to ensure the safety and sterility of our pharmaceutical-grade sodium chloride. Our comprehensive screening process identifies and eliminates potential microbial contamination.

Parameter	Specification	Result	Method
Total Aerobic Count	≤ 100 CFU/g	<10 CFU/g	USP <61>
Total Yeast & Mold	≤ 10 CFU/g	<5 CFU/g	USP <62>
Absence of Pathogens	Negative	Negative	PCR Screening

Certification

Authorized Signature: Digital Signature Verified

Quality Control Manager: John Smith

Certification Date: March 28, 2024