



LifeScience Pharmaceuticals

Comparative Compliance Certificate

Batch Reference: MFG-2024-0328

Supplier Batch: PC2024-0328

Product: Pharmaceutical Grade Sodium Chloride

Comparison Date: March 30, 2024

Physical Characteristics Comparison

A comprehensive comparative analysis of physical characteristics was conducted to validate the consistency and quality of the pharmaceutical-grade sodium chloride between the supplier and manufacturer. The evaluation focused on critical parameters that directly impact material performance and usability.

Parameter	Supplier Result	Manufacturer Result	Status
Appearance	Complies	White, crystalline powder	✓ MATCH
Particle Size	185 μm	190 μm	✓ WITHIN TOLERANCE
Bulk Density	0.90 g/mL	0.92 g/mL	✓ WITHIN TOLERANCE

Chemical Analysis Comparison

The chemical analysis comparison demonstrates exceptional alignment between supplier and manufacturer results. Precision analytical techniques were employed to evaluate critical chemical properties, ensuring the sodium chloride meets the highest pharmaceutical-grade standards.

Test	Supplier Result	Manufacturer Result	Status
Purity	99.7%	99.6%	✓ COMPLIANT
Moisture Content	0.07%	0.08%	✓ COMPLIANT
Heavy Metals	5.2 ppm	5.5 ppm	✓ COMPLIANT
pH (1% Solution)	7.2	7.1	✓ COMPLIANT

Microbiological Testing Comparison

Microbiological testing comparison validated the stringent sterility and safety standards maintained by both the supplier and manufacturer. Advanced screening methods confirmed minimal microbial presence and total absence of pathogens.

Parameter	Supplier Result	Manufacturer Result	Status
Total Aerobic Count	<10 CFU/g	<15 CFU/g	✓ COMPLIANT
Total Yeast & Mold	<5 CFU/g	<8 CFU/g	✓ COMPLIANT
Absence of Pathogens	Negative	Negative	✓ MATCH

Compliance Summary

A comprehensive evaluation of batch comparison results reveals consistent quality and full compliance with established pharmaceutical manufacturing standards.

Overall Compliance: FULLY COMPLIANT

Variation Tolerance: Within Acceptable Limits

Batch Approval Status: APPROVED

Certification

Certified By: Automated Compliance Verification System

Reviewed By: Dr. Emily Rodriguez, Compliance Officer

Certification Number: MFG-2024-0328-COMP

Certification Date: March 30, 2024