

SHANDONG ZESHENG CHEMICAL CO., LED. CERTIFICATE OF ANALYSIS

Product: Manganese Gluconate Dihydrate USP39 Powder			Manufacturer's Lot#: ZS20210311		
Quantity: 1000Kg	Expiry	date: March 28, 2022	Ma	Manufacture date: March 28, 2021	
REQUIREMENTS		SPECIFICATIONS		TEST RESULTS	
Appearance		Light pink coloured powder		Meets requirements	
Identification A B Assay (on dry basis)		To pass test To pass test 98.0-102.0%		Passes test Passes test 100.0%	
Water Chloride		6-9% 0.05% max.		8.0% 0.02%	
Sulfate		0.2% max.		0.02%	
Arsenic		3ppm max.		<3ppm	
Lead		10ppm max.		<10ppm	
Heavy metals		20ppm max.		<20ppm	
Reducing substances		1.0% max.		0.3%	
Organic volatile impurities		Meets requirements		Meets requirements	
Manganese content(as dihydrate)		11.19%-11.64%		11.42%	
Particle size		Thru 60 mesh		90%	
Microbial Limits Total aerobic count		1000cfu/g max.		10/g	
Total molds-yeasts E.Coli and Salmonella		300cfu/g max. Absent		10/g Absent	

Shandong Zesheng Chemical Co., Ltd. verifies that the information contained herein is true and correct to the best of our knowledge.

Verified by: Xue Li Date: June 30, 2020

Conversion Guide: 1ppm = 0.0001% 10ppm = 0.001% 100ppm = 0.01% 1000ppm = 0.1%