



SHANDONG GUANGHAO BIOLOGICAL PRODUCTS CO., LTD.

CERTIFICATE OF ANALYSIS

Product Name 产品名称	Methylsulfonylmethane (MSM) 二甲基砒	COA No. 分析单号码	2025111501
Grade 级别	40-60Mesh 40-60 目	Batch Size 批量	5000Kg
Batch No. 批号	20251111	Testing Date 检测日期	2025-11-15
Sample Source 样品来源	xmchem	Date of Manufacture &Packing 生产及包装日期	2025-11-11
Package 包装	25Kg kraft paper bag 25 千克牛皮纸袋	Expiration Date 到期日	2029-11-10
Test Standard 检测标准	USP42	Bag Quantity 袋数量	200
INSPECTION ITEMS 检测项目	PRODUCT INDEX 产品指标	INSPECTION RESULT 检测结果	TEST METHOD 检测方法
Assay 含量%	98.0%-102.0%	99.93	USP42<621>
Chromatographic Purity% 色谱纯度	≥99.8%	99.91	USP42<621>
DMSO Content % 二甲基砒含量	≤0.1	Conform	USP42<621>
Identification 鉴别	A.Infrared Absorption	Complies	USP42<196K>
	B.The retention time of the major peak of Sample solution corresponds to that of the standard solution as obtained in the Assay	Complies	UPS42
Appearance 外观	White Crystalline 白色晶体	White Crystalline	VISUAL
Odor 气味	Odorless 无味	Odorless	SMELLING
Melting Point °C熔点	108.5-110.5	108.8	USP42<741>
Bulk Density g/ml 堆密度	≥0.65	0.69	
Water Content %水含量	≤0.10	0.09	USP42<921>
Pb 铅 ppm	≤0.1	<0.1	USP42<231>
As 砷 ppm	≤0.1	<0.1	USP42<231>
Cd 镉 ppm	≤0.1	<0.1	USP42<231>
Hg 汞 ppm	≤0.1	<0.1	USP42<231>
Residue on Ignition % 灼烧残渣	<0.10	0.01	USP42<281>
Coliform(CFU/g) 大肠菌	Negative 否	Negative	USP42<2021>
E.Coli(CFU/10g) 大肠杆菌	Negative 否	Negative	USP42<2022>
Yeast/Mold(CFU/g) 酵母菌/霉菌	<10	<10	USP42<2021>
Salmonella 沙门氏菌	Negative 否	Negative	USP42<2021>
Standard Aerobic Plate Count(CFU/g) 需氧菌	<10	<10	USP42<2021>
Particle Size 粒度范围	40-60Mesh	Conform	SIEVE
Solubility 溶解度	Slightly soluble in water,soluble in ether,acetone,methanol		

