

CERTIFICATE OF ANALYSIS

Customer:		Batch No:	
Customer PO:		Manufacturing / Packaging Date:	
Customer Item:		Exp. Date:	
Order No:			
Product:	OptiMSM® Flake	Ship To:	

Manufacturing Site Address:

	Phone:		Quality Contact:	
	Fax:		Email:	

Analytical Results

Test Description	Specification				Batch Analysis Result
	Method	Units	Min	Max	
VOLATILE PURITY:	MSM-GC/FID 1-2 (Spec >99.8%)	%			99.99
Assay :	MSM-GC/FID 1	%	98.00	102.00	99.30
IDENTITY:	USP Method B				Pass
MELTING POINT:	USP/NF <741>	°C	108.5	110.5	109.0
WATER CONTENT:	USP/NF <921a> (Spec <0.1%)	%			<0.1
DMSO CONTENT:	MSM-GC/FID 1-2 (Spec <0.05%)	% ₃			<0.05
INDIVIDUAL IMPURITY	GC/FID 1 (Spec NMT 0.05%)	% ₃			<0.05
PARTICLE SIZE: 12.3	USP/NF <7861> (Spec NLT 98% THROUGH)	% Thru	98.00		99.70
BULK DENSITY:	USP/NF <6161>	g/ml	0.68		0.71
TAPPED DENSITY:	USP/NF <6161>	g/ml	0.78		0.88
Total Aerobic Count:	USP<61> (Spec <10 cfu/g)	cfu/g			<10
Total Yeast and Mold	USP<61> (Spec <10 cfu/g)	cfu/g			<10
Enterobacteria:	USP<62> (Spec Absent)				Pass
Escherichia coli	USP<62> (Spec Absent)				Pass
Salmonella:	USP<62> (Spec Absent)				Pass
Staph aureus:	USP<62> (Spec Absent)				Pass
As (Arsenic):	EPA 200.8-ICPMS 1.2 (Spec <0.01 ppm)	ppm			<0.01
Cd (Cadmium):	EPA 200.8-ICPMS 1.2 (Spec <0.005 ppm)	ppm..			<0.005
Hg (Mercury):	EPA 7471A 1-2 (Spec <0.001 ppm)	ppm..			<0.001
Pb (Lead):	EPA 200.8-ICPMS 1.2 (Spec <0.01 ppm)	ppm			<0.01
Note 1	Third party laboratory validated method.				-
Note 2	Additional third party validation method may				-

Customer Comments:

This Certificate is computer generated. No signature is required.

CERTIFICATE OF ANALYSIS

Document Print Date

Note 2.5	be used in place of listed method.				-
Note 3	U.S. Sieve Designation				-

Customer Comments:

This Certificate is computer generated. No signature is required.