



**CERTIFICATE OF ANALYSIS**

Product Name		S-Adenosyl-L-methionine Disulfate Tosylate	Batch No.	SAME-200628
Quantity		40KG	Packaging	20KG/DRUM
Date of Manufacture		JUN.28,2020	Expiry Date	JUN.27,2022
Inspection Standard		USP41		
Test Items		Specifications	Results	
Appearance		White to off-white Powder	White to off-white Powder	
Identification	Infrared	Conforms to the Reference Spectrum	Complied	
	HPLC	The retention time of the major peak corresponds to the reference sample	Complied	
Water Content(K.F)		3.0% MAX	1.5%	
Sulphated Ash		0.5% MAX.	0.06%	
Bulk density		0.5-1.0g/ml	Complied	
Particle size		≥95.0%<1000µm	Complied	
PH (5% AQUEOUS SOLUTION)		1.0 -2.0	1.2	
S, S-Isomer (HPLC)		75.0% MIN	82.3%	
SAM-e ION (HPLC)		49.5 - 54.7%	51.7%	
P-Toluenesulfonic Acid		21.0%–24.0%	22.6%	
Content of Sulfate (SO4) (HPLC)		23.5%–26.5%	25.6%	
S-Adenosyl-L-methionine Disulfate Tosylate		95.0%–103%	99.9%	
Related substances(HPLC):				
- S-ADENOSYL-L-HOMOCYSTEINE		1.0% MAX.	0.4%	
- ADENINE		1.0% MAX.	0.2%	
- METHYLTHIOADENOSINE		1.5% MAX	0.2%	
- ADENOSINE		1.0% MAX.	0.02%	
- TOTAL IMPURITIES		3.5% MAX.	1.2%	
Heavy Metals		Not more than 10 ppm	Complied	
LEAD		Not more than 3 ppm	Complied	
CADMIUM		Not more than 1 ppm	Complied	
MERCURY		Not more than 0.1 ppm	Complied	
ARSENIC		Not more than 2 ppm	Complied	
Microbiology	Total Aerobic Count	≤1000cfu/g	Complies	
	Yeast and mold count	≤100cfu/g	Complies	
	E. coli	Absent/10g	Complies	
	S. aureus	Absent/10g	Complies	
	Salmonella	Absent/10g	Complies	
Conclusion		Complies with USP41		

*non-GMO, non-irradiation, non-BSE/TSE*