



# 杭州林然生物科技有限公司

Hangzhou Lin Ran Bio-tech Co.,Ltd

## CERTIFICATE OF ANALYSIS

Product Name		S-Adenosyl-L-methionine Disulfate To	Batch No.	200307
Quantity		125KGS	Packaging	25KG/DRUM
Date of Manufacture		March.17, 2020	Expiry Date	March.27,2022
Inspection Standard		USP37		
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	1.3%	
Sulphated Ash		0.5% MAX.	Complied	
PH (5% AQUEOUS SOLUTION)		1.0 -2.0	1.3	
S, S-Isomer (HPLC)		75.0% MIN	84.2%	
SAM-e ION (HPLC)		49.5 - 54.7%	51.7%	
P-Toluenesulfonic Acid		21.0%–24.0%	21.6%	
Content of Sulfate (SO4) (HPLC)		23.5%–26.5%	25.1%	
S-Adenosyl-L-methionine Disulfate T		95.0%–103%	99.9%	
Related substances(HPLC):				
-S-ADENOSYL-L-HOMOCYSTEIN		1.0% MAX.	0.1%	
- ADENINE		1.0% MAX.	0.2%	
- METHYLTHIOADENOSINE		1.5% MAX	0.2%	
- ADENOSINE		1.0% MAX.	0.1%	
- TOTAL IMPURITIES		3.5% MAX.	1.0%	
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 USP37		

QC Director: Liu Jing

Checker: Chen Rong