



CERTIFICATE OF ANALYSIS

Batch	Manufacturer	Manufactured	Expiration
C250409	CNS89 - 35YHFX	20/04/2025	19/04/2027

Product Name	S-Adenosyl-L-methionine Disulfate Tosylate
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Test Item	Specification	Result
Appearance	White to off-white Powder	White to off-white Powder
Identification - Infrared	Conforms to the Reference Spectrum	Complied
Identification - HPLC	The retention time of the major peak corresponds to the reference sample	Complied
Water Content (K.F)	3.0% MAX	0.90%
Sulphated Ash	0.5% MAX.	0.3%
pH (5% AQUEOUS SOLUTION)	1.0 - 2.0	1.3
S, S-Isomer (HPLC)	75.0% MIN	82.4%
SAM-e ION (HPLC)	49.5 - 54.7%	51.0%
P-Toluenesulfonic Acid	21.0% - 24.0%	22.5%
Content of Sulfate (SO4) (HPLC)	23.5% - 26.5%	25.2%
S-Adenosyl-L-methionine Disulfate Tosylate	95.0% - 103%	98.7%
Related substances (HPLC): S-ADENOSYL-L-HOMOCYSTEINE	1.0% MAX.	0.19%
Related substances (HPLC): ADENINE	1.0% MAX.	0.25%
Related substances (HPLC): METHYLTHIOADENOSINE	1.5% MAX	0.41%
Related substances (HPLC): ADENOSINE	1.0% MAX.	0.10%
Related substances (HPLC): TOTAL IMPURITIES	3.5% MAX.	1.4%
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 1 ppm	Complied
Bulk Density	Not less than 0.4g/ml	Complied
Particle Size	Through 60 mesh	Complied
Microbiology - Total Aerobic Count	<=1000cfu/g	Complies
Microbiology - Yeast and mold count	<=100cfu/g	Complies
Microbiology - E. coli	Absent/10g	Complies
Microbiology - S. aureus	Absent/10g	Complies
Microbiology - Salmonella	Absent/10g	Complies

Conclusion	Complies with USP43
General status	Non-GMO, non-irradiation, Non-BSE/TSE

Base Bulk