

## Certificate of analysis

### S-Adenosyl-L-methionine Disulfate Tosylate (SAME)

CAS No.	97540-22-2	Code	BIOJSAME
Batch No	C230804	Manufacture Date	Aug.10, 2023
Expiry Date	Aug.09, 2025	Quantity	5Kgs

Testing Items	Specifications	Results
Appearance	White to off-white powder	White to off-white powder
Identification	IR: Conforms to the reference spectrum	Complies
	HPLC: The retention time of the major peak corresponds to the reference sample	Complies
Water content(K.F)	≤3.0%	0.84%
Sulphated ash	≤0.5%	0.4%
PH(5% Aqueous solution)	1.0~2.0	1.1
S, S-Isomer(HPLC)	≥75.0%	76.4%
SAM-e ION(HPLC)	49.5%~54.7%	51.3%
P-Toluenesulfonic acid	21.0%~24.0%	21.7%
Content of Sulfate(SO <sub>4</sub> ) (HPLC)	23.5%~26.5%	25.1%
Assay	95.0%~130.0%	98.1%
Related substances (HPLC)	S-Adenosyl-L-Homocysteine ≤1.0%	0.03%
	Adenine ≤1.0%	0.50%
	Methylthioadenosine ≤1.5%	0.14%
	Adenosine ≤1.0%	0.02%
	Total Impurities ≤3.5%	1.4%
Heavy metals	≤10ppm	Complies
Lead	≤3ppm	Complies
Cadmium	≤1ppm	Complies
Mercury	≤0.1ppm	Complies
Arsenic	≤2ppm	Complies
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	This product conforms to USP41 standard	

**\*Storage condition: Store at 0~8°C, Protect from moisture and light.**