

## Certificate of Analysis

Product Name:	<b>S-Adenosyl-L-Methionine Disulfate Tosylate (SAME)</b>
Starting Material:	<b>Glucose/Baker Yeast</b>
Residual Solvents:	<b>None</b>
Country of Origin:	<b>China</b>
Batch Number:	<b>Varies</b>
Manufacture Date:	<b>Varies</b>
Retest Date:	<b>Varies</b>

## Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
p-Toluenesulfonic Acid (HPLC)	21.0-24.0%	23.0%
S-Adenosyl L-Methionine Disulfatetosylate (HPLC)	95-103%	102.42%
S,S-Isomer (HPLC)	≥75%	79.43%
SAMe Ion (HPLC)	49.5-54.7%	53.22%
Arsenic	≤2 ppm	Not Detected, <0.001 ppm
Cadmium	≤1 ppm	0.001 ppm
Lead	≤3 ppm	0.015 ppm
Mercury	≤0.1 ppm	0.002 ppm
Aerobic Plate Count	≤1000 cfu/g	<10 cfu/g
Coliforms	≤100 cfu/g	<10 cfu/g
<i>E. Coli</i>	Negative	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<10 cfu/g
<i>Salmonella</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White to off-white powder	White to off-white powder
Identification		
Infrared	Conforms to the reference spectrum	Conforms
HPLC	The retention time of the major peak corresponds to the reference sample	Conforms
Water Content (KF)	≤3.0%	0.74%
Sulphated Ash	≤0.5%	0.3%
pH (5% aqueous solution)	1.0-2.0	1.2
Content of Sulfate (SO <sub>4</sub> ) (HPLC)	23.5% - 26.5%	25.5%
Related Substances (HPLC)		
S-Adenosyl-L-Homocysteine	≤1.0%	0.09%
Adenine	≤1.0%	0.44%
Methylthioadenosine	≤1.5%	0.14%
Adenosine	≤1.0%	0.08%
Total Impurities	≤3.5%	1.3%
Heavy Metals	≤10 ppm	Conforms
Solubility	Free solubility in water	Conforms
Particle Size	100% through 60 mesh	Conforms
Conclusion (Manufacturer):	This product conforms to USP43 standards	

**Additional Information:** Non-Allergen || Melamine Free || Gluten-Free || No Pesticides || BSE/TSE Free || GRAS - Yes || Vegan/Vegetarian

**Sterilization:** Non-Irradiated || Non-EtO

**GMO Statement:** Non-GMO

**Storage Conditions:** **Keep in sealed container under 25°C.**  
**Keep away from strong light, heat and moisture.**

*Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.*

*Verified By: Candace Gibson*

( This document was produced electronically and is valid without signature. )