
Material Safety Data Sheet for MAT Activity Assay Kit**1. Product Identification**

Product: Methionine Methyltransferase (MAT) Assay Kit
Catalog #: IK00401, IK00403
Manufacturer: Arthus Biosystems, LLC
Address: 2600 Hilltop Dr. Richmond, CA 94806
Web: www.arthusbio.com
Email: info@arthusbio.com
Phone: +1 (877) 366 3888
Fax: +1 (844) 448 7410
Date Updated: January 3, 2017
Prepared by: Quality Control

2. Hazards Identification

Aza-SAM standard is a synthetic compound (Arthus Biosystems, Cat# AST00201). Microplate was coated with Poly-lysine conjugated Aza-SAM (Arthus Biosystems, Cat# ACT00201). No proteins from E. Coli or baculovirus expression or any other expression systems were used. It does not contain Thimerosal, Sodium azide or 2-Mercaptoethanol. The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling the following products. Safety procedures should include wearing OSHA approved safety glasses, gloves, and protective clothing. Direct physical contact with all components in this product should be avoided.

<u>Known Hazardous Components</u>	<u>CAS Number</u>	<u>Amount</u>
Tetramethylbenzidine (TMB)	64285-73-0	750 ppm
H ₂ SO ₄	7664-93-9	2 M
ProClin 300	Sigma-Aldrich Cat# 48912-U	0.1%

3. Ingredient Information

Material Safety Data Sheet for MAT Activity Assay Kit

<u>Kit Components for IK00401</u>	<u>Amount</u>
Assay Plate	12×8 wells
Wash Solution (20× PBST)	1×20ml
HRP-antibody	1×15µl
MAT Substrates (ATP, Met)	1x1ml
MAT Positive Control (MAT)	1x40µl
Antibody Diluent (PBST, BSA)	1×9ml
Sample Diluent (0.5% BSA, Tris,K+)	1×6ml
TMB Substrate	1×11ml
Stop Solution (2M Sulfuric acid)	1×6ml
Microplate Sealers	2
S0 SAM Standard 0 nM	1×200µl
S1 SAM Standard 15 nM	1×200µl
S2 SAM Standard 30 nM	1×200µl
S3 SAM Standard 120 nM	1×200µl
S4 SAM Standard 240 nM	1×200µl
S5 SAM Standard 480 nM	1×200µl
S6 SAM Standard 960 nM	1×200µl
QC SAM Quality Control 160-240nM	1×200µl
<u>Kit Components for IK00403</u>	<u>Amount</u>
Assay Plate	6×8 wells
Wash Solution (20× PBST)	1×10ml
HRP-antibody	1×15µl
MAT Substrates (ATP, Met)	1x0.5ml
MAT Positive Control (MAT)	1x20µl
Antibody Diluent (PBST, BSA)	1×4.5ml
Sample Diluent (0.5% BSA, Tris,K+)	1×3ml
TMB Substrate	1×5.5ml
Stop Solution (2M Sulfuric acid)	1×2.8-3ml
Microplate Sealers	1-2
S0 SAM Standard 0 nM	1×100µl
S1 SAM Standard 15 nM	1×100µl
S2 SAM Standard 30 nM	1×100µl
S3 SAM Standard 120 nM	1×100µl
S4 SAM Standard 240 nM	1×100µl
S5 SAM Standard 480 nM	1×100µl
S6 SAM Standard 960 nM	1×100µl
QC SAM Quality Control 160-240nM	1×100µl
4. First Aid Procedures	

Material Safety Data Sheet for MAT Activity Assay Kit

Ingestion If swallowed, wash out mouth with water provided person is conscious. Call a physician or poison control.

Skin Contact Flush with plenty of water and wash with soap and water immediately for at least 20 minutes. Remove contaminated clothing and shoes. Call a physician if irritation or discomfort starts to develop.

Inhalation Remove to fresh air. Give oxygen when breathing becomes difficult. In case breathing stops, administer artificial respiration. Call for medical help.

5. Fire Fighting Measures

None of the components of this kit pose a significant risk in case of fire. Fire fighting media should be selected to suit other materials involved in the fire. It is recommended that firefighters wear protective gear and self-contained breathing apparatus to limit their exposure.

6. Accidental Release Measures

Ventilate area. Shut off all sources of ignition. Wear appropriate protective gear. Wipe or pick-up materials, place in sealed container, dispose of in accordance with federal, state, and local regulations.
Wash spill site thoroughly with soap and water after material pick-up is complete.

7. Handling and Storage

This kit should be stored as recommended on the product label. All components should be kept in tightly closed containers. Refer to the Storage section of the kit instruction for further information. This kit should only be handled and used by qualified, trained professionals.

8. Exposure Controls/Personal Protection

Refer to Sections 6 and 7.

9. Physical and Chemical Properties

Material Safety Data Sheet for MAT Activity Assay Kit

<p>Physical State: Liquid except for the coated microwells. Color: Clear for most liquid reagents. Except for antibody diluent which is light yellowish brown. Odor: None detectable. pH: 6 – 8 for all components except Stop Solution at <3 (highly acidic) Boiling Point: Not applicable. Melting Point: Not applicable. Flash Point: Not applicable. Flammability: Not Flammable. Auto flammability: Will not occur. Vapor Pressure: Not applicable. Relative Density: 0.00001-10mg/ml Water Solubility: 100% soluble.</p>
10. Stability and Reactivity
<p>This product is stable until the expiration date indicated on the kit label under the specified storage conditions. There are no known reactivities with these components. Refer to the kit insert for further information.</p>
11. Toxicological Information
<p>None available.</p>
12. Ecological Information
<p>None available.</p>
13. Disposal Considerations
<p>Disposal of Preparation Left: Dispose according to current regional and national rules. Contaminated Containers: Dispose of following current regulations.</p>
14. Transport Information
<p>Road / Railway Haulage ADR/RID: Not restricted. Sea Freight IMO (IMDG): Not restricted. Air Freight IATA (ICAO): Not restricted. UN Number: Not applicable.</p>
15. Regulatory Information



Material Safety Data Sheet for MAT Activity Assay Kit

Symbols of Danger: None.

"R" Phrases Indicating Specific Risks: R 35 – (for concentrated sulfuric acid) Causes severe burns.

"S" Phrases Indicating Caution: S 26 – (for concentrated sulfuric acid) In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

16. Other Information

The above information is believed to be correct but does not purport to be all-inclusive and shall be used as a guide. Arthus Biosystems, LLC shall not be held liable for any damage resulting from handling or contact with the above product. The burden of safe use of these materials rests solely with the users.