
Material Safety Data Sheet for SAM ELISA Kit (Plasma)**1. Product Identification**

Product: S-Adenosylmethionine (SAM) ELISA Kits for plasma, serum and tissue samples
Catalog #: IK00201s, IK00202s, IK00203s
Manufacturer: Arthus Biosystems, LLC
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Date Updated: January 3, 2017
Prepared by: Quality Control

2. Hazards Identification

Aza-SAM standard is a synthetic compound (Arthus Biosystems, Cat# AST00201). Micro-plate was coated with Poly-lysine conjugated Aza-SAM (Arthus Biosystems, Cat# ACT00201). proteins from E. Coli expression or any other expression systems were used. 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 productst. 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>
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Tetramethylbenzidine (TMB)	64285-73-0	750 ppm
H ₂ SO ₄	7664-93-9	2M
ProClin 300	Sigma-Aldrich Cat# 48912-U	0.1%

3. Ingredient Information

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<u>Kit Components for IK00201s and IK00202s</u>	<u>Amount</u>
Assay Plate	12×8 wells
Wash Solution (20× PBST)	1×20ml
HRP-antibody	1×15ul
Antibody Diluent (PBST, BSA)	1×9ml
Sample Diluent (inactivated normal plasma)	1×1ml
TMB Substrate	1×11ml
Stop Solution (2M sulfuric acid)	1×6ml
Microplate Sealers	2
IK00201s:	
S0 SAM Standard 0 nM	1×150ul
S1 SAM Standard 30 nM	1×150ul
S2 SAM Standard 60 nM	1×150ul
S3 SAM Standard 120 nM	1×150ul
S4 SAM Standard 240 nM	1×150ul
S5 SAM Standard 480 nM	1×150ul
S6 SAM Standard 960 nM	1×150ul
QC SAM Quality Control 240-360nM	1×150ul
IK00202s:	
S0 SAM Standard 0 nM	1×150ul
S1 SAM Standard 15 nM	1×150ul
S2 SAM Standard 60 nM	1×150ul
S3 SAM Standard 240 nM	1×150ul
S4 SAM Standard 480 nM	1×150ul
S5 SAM Standard 960 nM	1×150ul
S6 SAM Standard 1920 nM	1×150ul
QC SAM Quality Control 240-360nM	1×150ul
<u>Kit Components for IK00203s</u>	<u>Amount</u>
Assay Plate	6×8 wells
Wash Solution (20× PBST)	1×10ml
HRP-antibody	1×15ul
Antibody Diluent (PBST, BSA)	1×4.5ml
Sample Diluent (0.5% BSA, PBS)	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	1×80ul
S1 SAM Standard 15 nM	1×80ul
S2 SAM Standard 60 nM	1×80ul
S3 SAM Standard 240 nM	1×80ul
S4 SAM Standard 480 nM	1×80ul
S5 SAM Standard 960 nM	1×80ul
S6 SAM Standard 1920 nM	1×80ul
QC SAM Quality Control 240-360nM	1×80ul
4. First Aid Procedures	

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<p>Ingestion If swallowed, wash out mouth with water provided person is conscious. Call a physician or poison control.</p> <p>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.</p> <p>Inhalation Remove to fresh air. Give oxygen when breathing becomes difficult. In case breathing stops, administer artificial respiration. Call for medical help.</p>
5. Fire Fighting Measures
<p>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.</p>
6. Accidental Release Measures
<p>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.</p> <p>Wash spill site thoroughly with soap and water after material pick-up is complete.</p>
7. Handling and Storage
<p>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.</p>
8. Exposure Controls/Personal Protection
<p>Refer to Sections 6 and 7.</p>
9. Physical and Chemical Properties

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<p>Physical State: Liquid except for the coated microwells. Color: Clear for most liquid reagents. Except for antibody diluent which is light yellowish brown, and sample diluents which is yellow. 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: 0.0001-10 mg/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

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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.