
Material Safety Data Sheet for Flow Cytometry Kits for SAM and SAH**1. Product Identification**

Product: Flow Cytometry Kit for S-adenosylmethionine and S-adenosylhomocysteine
Catalog #: FK00201, FK00202, FK00301, FK00302
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
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Prepared by: Quality Control

2. Hazards Identification

Fluorescence antibodies (Arthus Biosystems, Cat# MAF00201, MAF00202, MAF00301, MAF00302). No proteins from E. Coli or baculovirus expression or any other expression systems were used. It does not contain Thimerosal and 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>
Sodium azide	26628-22-8	0.09%
Formaldehyde	50-00-0	4%

3. Ingredient Information

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<u>Kit Components</u>	<u>Amount</u>
FK00201:	
AF647-anti-SAM Antibody	25 µl
Antibody Dilution Buffer	1.2 ml
Nucleus Fix 1	2.75 ml
Nucleus Fix 2	8.25 ml
Cytoplasm Fix	10.5 ml
Permeabilization Buffer (10x)	6.5 ml
FK00202:	
R-PE-anti-SAM Antibody	50 µl
Antibody Dilution Buffer	0.3 ml
Nucleus Fix 1	0.55 ml
Nucleus Fix 2	1.65 ml
Cytoplasm Fix	2.2 ml
Permeabilization Buffer (10x)	1.3 ml
FK00301:	
AF488-anti-SAH Antibody	120 µl
Antibody Dilution Buffer	0.6 ml
Nucleus Fix 1	1.65 ml
Nucleus Fix 2	4.95 ml
Cytoplasm Fix	6.6 ml
Permeabilization Buffer (10x)	3.9 ml
FK00302:	
AF488-anti-SAH Antibody	40 µl
Antibody Dilution Buffer	0.3 ml
Nucleus Fix 1	0.55 ml
Nucleus Fix 2	1.65 ml
Cytoplasm Fix	2.2 ml
Permeabilization Buffer (10x)	1.3 ml

4. First Aid Procedures

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

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<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
<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

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None available.
12. Ecological Information
None available.
13. Disposal Considerations
Disposal of Preparation Left: Dispose according to current regional and national rules. Contaminated Containers: Dispose of following current regulations.
14. Transport Information
Road / Railway Haulage ADR/RID: Not restricted. Sea Freight IMO (IMDG): Not restricted. Air Freight IATA (ICAO): Not restricted. UN Number: Not applicable.
15. Regulatory Information
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.