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**Material Safety Data Sheet for SAH ELISA Kit****1. Product Identification**

Product: S-Adenosylhomocysteine (SAH) ELISA Kits for a sample in a simple buffer or matrix  
Catalog #: IK00301, IK00302, IK00303  
Manufacturer: Arthus Biosystems, LLC  
Address: 2600 Hilltop Dr. Richmond, CA 94806  
Web: [www.arthusbio.com](http://www.arthusbio.com)  
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Date Updated: January 3, 2017  
Prepared by: Quality Control

**2. Hazards Identification**

SAH standard is a synthetic compound. Micro-plate was coated with BSA (Sigma-Aldrich) conjugated SAH. No 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 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 <sub>2</sub> SO <sub>4</sub>	7664-93-9	2M
ProClin 300	Sigma-Aldrich Cat# 48912-U	0.1%

**3. Ingredient Information**

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<u>Kit Components for IK00301 and IK00302</u>	<u>Amount</u>
Assay Plate	12×8 wells
Wash Solution (20× PBST)	1×20ml
HRP-antibody	1×15ul
Antibody Diluent (PBST, BSA)	1×7.5ml
Sample Diluent (0.5% BSA, PBS)	1×6ml
TMB Substrate	1×11ml
Stop Solution (2M Sulfuric acid)	1×6ml
Microplate Sealers	2
IK00301:	
S0 SAH Standard 0 nM	1×330ul
S1 SAH Standard 31.25 nM	1×660ul
S2 SAH Standard 62.5 nM	1×330ul
S3 SAH Standard 125 nM	1×330ul
S4 SAH Standard 250 nM	1×330ul
S5 SAH Standard 500 nM	1×330ul
S6 SAH Standard 1000 nM	1×330ul
QC SAH Quality Control 320-480nM	1×330ul
IK00302:	
S0 SAH Standard 0 nM	1×330ul
S1 SAH Standard 15.625 nM	1×330ul
S2 SAH Standard 31.25 nM	1×330ul
S3 SAH Standard 125 nM	1×330ul
S4 SAH Standard 500 nM	1×330ul
S5 SAH Standard 1000 nM	1×330ul
S6 SAH Standard 2000 nM	1×330ul
QC SAH Quality Control 200-300nM	1×330ul
<u>Kit Components for IK00303</u>	<u>Amount</u>
Assay Plate	6×8 wells
Wash Solution (20× PBST)	1×10ml
HRP-antibody	1×15ul
Antibody Diluent (PBST, BSA)	1×3.8ml
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 SAH Standard 0 nM	1×180ul
S1 SAH Standard 15.625 nM	1×180ul
S2 SAH Standard 31.25 nM	1×180ul
S3 SAH Standard 125 nM	1×180ul
S4 SAH Standard 500 nM	1×180ul
S5 SAH Standard 1000 nM	1×180ul
S6 SAH Standard 2000 nM	1×180ul
QC SAH Quality Control 200-300nM	1×180ul
<b>4. First Aid Procedures</b>	

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

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<p><b>Physical State:</b> Liquid except for the coated microwells. <b>Color:</b> Clear for most liquid reagents. Except for antibody diluent which is light yellowish brown. <b>Odor:</b> None detectable. <b>pH:</b> 6 – 8 for all components except Stop Solution at &lt;3 (highly acidic) <b>Boiling Point:</b> Not applicable. <b>Melting Point:</b> Not applicable. <b>Flash Point:</b> Not applicable. <b>Flammability:</b> Not Flammable. <b>Auto flammability:</b> Will not occur. <b>Vapor Pressure:</b> Not applicable. <b>Relative Density:</b> 0.00001-10mg/ml <b>Water Solubility:</b> 100% soluble.</p>
<b>10. Stability and Reactivity</b>
<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>
<b>11. Toxicological Information</b>
<p>None available.</p>
<b>12. Ecological Information</b>
<p>None available.</p>
<b>13. Disposal Considerations</b>
<p><b>Disposal of Preparation Left:</b> Dispose according to current regional and national rules. <b>Contaminated Containers:</b> Dispose of following current regulations.</p>
<b>14. Transport Information</b>
<p><b>Road / Railway Haulage ADR/RID:</b> Not restricted. <b>Sea Freight IMO (IMDG):</b> Not restricted. <b>Air Freight IATA (ICAO):</b> Not restricted. <b>UN Number:</b> Not applicable.</p>
<b>15. Regulatory Information</b>

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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.