

# MATERIAL SAFETY DATA SHEET

## Large Format PEP Universal Protein Purification kit

FILE NO.: AB000501  
MSDS DATE: 9 September 2013

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Large Format PEP Universal Protein Purification kit  
**SYNONYMS:**  
**PRODUCT CODES:** AB000501

**MANUFACTURER:** Array Bridge, Inc  
**ADDRESS:** 4320 Forest Park Avenue, Saint Louis, MO 63108, USA

**EMERGENCY PHONE:** 636-284-4214  
**OFFICE PHONE:** 314-932-4032, ext 303  
**FAX PHONE:** 314-932-4038

**CHEMICAL NAME:** Not applicable  
**CHEMICAL FAMILY:** Not applicable  
**CHEMICAL FORMULA:** Not applicable

**PRODUCT USE:** Gel-based purification of functional protein from a partially purified protein fraction.  
**PREPARED BY:** Michael Davies

#### SECTION 1 NOTES:

**SECTION 2: Hazardous chemicals present at or above reportable levels as defined by OSHA 29 CFR 1910.1200 or the Canadian Controlled Products Regulations are listed in this table:**

	CAS#	EINECS#	Concentration	Hazard Classification
<b>20x Protein Transfer Buffer (100ml)</b>				
Sodium Laurel Sulfate	151-21-3	205-788-1	2%	Toxic, Irritant
<b>IEF Sample Buffer (1ml)</b>				
BioLyte	None	none	<1%	Irritant
<b>PEP Protein Recovery Buffer (100ml)</b>				
Sodium Laurel Sulfate	151-21-3	205-788-1	<1%	Toxic, Irritant
<b>Standard SDS-PAGE Sample Buffer (0.5ml)</b>				
Sodium Laurel Sulfate	151-21-3	205-788-1	1%	Toxic, Irritant
DTT	3403-12-3	222-468-7	<1%	Toxic, Irritant

#### SECTION 2 NOTES:

### SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Avoid eye contact and ingestion. If skin contact occurs, flush with water. Handle stop solution with care as it is caustic; flush with water immediately if it comes in contact with body parts.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Avoid eye contact at all costs. If eye contact does occur, see Section 4 (First Aid Measures) below.

**SKIN:** Avoid skin contact

**INGESTION:** Do not ingest

**INHALATION:** Do not inhale

**ACUTE HEALTH HAZARDS:** This kit is designed to be used in a laboratory environment and users should wear appropriate lab attire to prevent skin and eye contact.

**CHRONIC HEALTH HAZARDS:** None known

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** None known

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**CARCINOGENICITY:** None known

**SECTION 3 NOTES:**

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**SECTION 4: FIRST AID MEASURES**

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**EYES:** If chemical contacts the eyes, use an eye wash station or similar device to flush the victim's eyes while open with water for 15 minutes. Remove contact lenses if worn. See medical attention if irritation persists.

**SKIN:** If chemical contacts the skin, wash thoroughly with soap and water

**INGESTION:** If chemical is swallowed, call poison control center (1-800-222-1222 in the US) and seek advice. If victim is conscious, rinse mouth thoroughly with water. Do not give liquids if victim is unconscious. If medical advice is not available, do not induce vomiting. Take victim to a medical professional, together with this MSDS and a copy of the label.

**INHALATION:** Move victim to fresh air. If breathing difficulty persists, seek medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:**

**SECTION 4 NOTES:**

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**SECTION 5: FIRE-FIGHTING MEASURES**

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**FLAMMABLE LIMITS IN AIR, UPPER:** Non flammable  
**(% BY VOLUME) LOWER:** Non flammable

**FLASH POINT:**

**F:** Non flammable

**C:** Non flammable

**METHOD USED:**

**AUTOIGNITION TEMPERATURE:**

**F:** Non flammable

**C:** Non flammable

**NFPA HAZARD CLASSIFICATION**

**HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0**  
**OTHER: 0**

**HMIS HAZARD CLASSIFICATION**

**HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0**  
**PROTECTION: 0**

**EXTINGUISHING MEDIA:** Use extinguisher appropriate for surrounding fire

**SPECIAL FIRE FIGHTING PROCEDURES:** This product is water based with no known fire hazards

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** This product is water based with no known fire or explosion hazards

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known

**SECTION 5 NOTES:**

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Appropriate protective clothing should be worn and absorbent material used to soak up the spill. Place all spill residue in appropriate containers for disposal.

**SECTION 6 NOTES:**

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:** Wear protective lab clothing and eye protection and avoid getting this product on you or in you. Wash thoroughly after using it and do not smoke, drink or eat while using it.

**OTHER PRECAUTIONS:**

**SECTION 7 NOTES:**

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING AND VENTILATION CONTROLS:** Use with adequate ventilation to ensure that exposure limits are maintained below established limits. Currently, international exposure limits are not established for all the components of this kit. Please check with a competent authority in each country for the most recent limits in place.

**RESPIRATORY PROTECTION:** If exposure limits are exceeded, use only respiratory protection authorized in the US Federal OSHA Respiratory Protection Standard (29 CFR 1910.134) or equivalent standard.

**EYE PROTECTION:** Safety glasses with side shields are recommended.

**SKIN PROTECTION:** Compatible protective gloves are recommended.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Use body protection appropriate to the task. At a minimum, a lab coat, closed toed shoes, protective gloves and safety glasses should be worn while using this kit.

**WORK HYGIENIC PRACTICES:** Wash hands after use, do not eat, drink or smoke while using this kit.

**EXPOSURE GUIDELINES:** Do not intentionally inhale or spill the contents of this kit on the body. If inhaled, seek immediate medical attention. If spilled on body, flush liberally with water and seek medical attention if contact occurs with eyes, ears or mucus membranes.

**SECTION 8 NOTES:**

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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APPEARANCE: Clear liquids

ODOR: No data

PHYSICAL STATE: No data

pH AS SUPPLIED: All components have neutral pH  
pH (Other):

BOILING POINT: No data  
F:  
C:

MELTING POINT: No data  
F:  
C:

FREEZING POINT: No data  
F:  
C:

VAPOR PRESSURE (mmHg): No data  
@  
F:  
C:

VAPOR DENSITY (AIR = 1): No data  
@  
F:  
C:

SPECIFIC GRAVITY (H<sub>2</sub>O = 1): No data  
@  
F:  
C:

EVAPORATION RATE: No data

BASIS (=1):

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)**

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SOLUBILITY IN WATER: No data

PERCENT SOLIDS BY WEIGHT: No data

PERCENT VOLATILE: No data  
BY WT/ BY VOL @  
F:  
C:

VOLATILE ORGANIC COMPOUNDS (VOC): No data

WITH WATER: LBS/GAL  
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: No data

VISCOSITY: No data  
@  
F:  
C:

SECTION 9 NOTES:

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**SECTION 10: STABILITY AND REACTIVITY**

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**STABILITY:** Stable under ordinary conditions of storage and temperature

**HAZARDOUS DECOMPOSITION PRODUCTS:** When stored as recommended, no known hazardous decomposition products are formed during the shelf life of this product

**INCOMPATIBILITY (MATERIAL TO AVOID):** No data available

**SECTION 10 NOTES:**

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:** No data available

**SECTION 11 NOTES:**

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** No known environmental hazards. However, work practices should be aimed at minimizing environmental contamination.

**SECTION 12 NOTES:**

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Waste disposal must be in accordance with appropriate US Federal, State and local regulations, or, where appropriate, those of the country in which this product is used.

**SECTION 13 NOTES:**

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**SECTION 14: TRANSPORT INFORMATION**

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**U.S. DEPARTMENT OF TRANSPORTATION**

DOT Classification: Non-regulated material  
DOT Labeling Requirements: None  
IATA Labeling Requirements: None

This product is not classified as dangerous goods, per US DOT regulations, under 49 CFR 172.101

**SECTION 14 NOTES:**

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**SECTION 15: REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** All components on this product are listed on the USA Toxic Substances Control Act (TSCA) or are exempt from listing.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT):** None

**311/312 HAZARD CATEGORIES:** Acute Health: Yes, Chronic Health: No, Fire: No, Reactivity: No.

**313 REPORTABLE INGREDIENTS:** None at quantities present in this kit

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INTERNATIONAL REGULATIONS:

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Kit contents believed to be either listed or exempt. Consult local regulations for your locality.

SECTION 15 NOTES:

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## SECTION 16: OTHER INFORMATION

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OTHER INFORMATION:

PREPARATION INFORMATION:

**DISCLAIMER:** This product is intended for research purposes only. Not intended for diagnostic procedures or for use in humans or animals. While this MSDS is based on technical data deemed to be reliable, Array Bridge assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the health and safety of themselves and others associated with this kits use.