



# SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2019

Date Updated: August 09, 2019

## SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

**Product Name** BSA Standard Solution (Bovine Serum Albumin, 20mg/mL)  
**Product Code(s)** AJ642  
**Recommended Use** For Laboratory Research Use Only  
Not for Human or Animal Drug Use

**Supplier** Bio Basic Inc.  
**Address** 20 Konrad Crescent, Markham, Ontario,  
Canada, L3R 8T4  
**Telephone** (905) 474 4493  
**Fax** (905) 474 5794  
**For Chemical Emergency Phone#** (416) 995 9730

## SECTION 2. ----- HAZARDS IDENTIFICATION -----

### Classification of the substance or mixture

Not a hazardous substance or mixture.

### GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS - none**

## SECTION 3. ----- COMPOSITION/INFORMATION ON INGREDIENTS -----

### Mixtures

Synonyms: BSA solution

Chemical Name	EC No.	CAS-No	Weight %
Sodium azide	247-852-1	26628-22-8	0.1

## SECTION 4. ----- FIRST-AID MEASURES -----

### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

### In case of skin contact

Wash off with soap and plenty of water.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## SECTION 5. ----- FIRE FIGHTING MEASURES -----

### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

**Explosion data - sensitivity to mechanical impact**

No data available

**Explosion data - sensitivity to static discharge**

No data available

**SECTION 6. - - - - - ACCIDENTAL RELEASE MEASURES - - - - -****Personal precautions**

Avoid breathing vapours, mist or gas.

**Environmental precautions**

No special environmental precautions required.

**Methods and materials for containment and cleaning up**

Keep in suitable, closed containers for disposal.

**SECTION 7. - - - - - HANDLING AND STORAGE - - - - -****Conditions for safe storage**

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature 2-8 °C

Keep in a dry place.

**SECTION 8. - - - - - EXPOSURE CONTROLS/PERSONAL PROTECTION - - - - -****PROTECTION Personal protective equipment****Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Eye protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin and body protection**

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

General industrial hygiene practice.

**Specific engineering controls**

Use mechanical exhaust or laboratory fumehood to avoid exposure.

**SECTION 9. - - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - - -**

**Appearance**

Form	liquid
Colour	No data available

**Safety data**

pH	4.8 - 7.5
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Ignition temperature	No data available
Auto-ignition temperature	No data available
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Relative vapour density	No data available
Odour	No data available
Odour Threshold	No data available
Evaporation rate	No data available

**SECTION 10. -----STABILITY AND REACTIVITY -----****Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

No data available

**Conditions to avoid**

No data available

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - No data available

**SECTION 11. ----- TOXICOLOGICAL INFORMATION -----****Acute toxicity****Oral LD50**

No data available (Water)

**Inhalation LC50**

No data available (Water)

**Dermal LD50**

No data available (Water)

**Other information on acute toxicity**

No data available (Water)

**Skin corrosion/irritation**

No data available (Water)

**Serious eye damage/eye irritation**

No data available (Water)

**Respiratory or skin sensitisation**

No data available (Water)

**Germ cell mutagenicity**

No data available (Water) (Water)

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity**

(Water)

No data available (Water)

**Teratogenicity**

No data available (Water)

(Water)

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

No data available (Water)

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

No data available

**Aspiration hazard**

No data available (Water)

**Potential health effects**

**Inhalation**

May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion**

May be harmful if swallowed.

**Skin**

May be harmful if absorbed through skin. May cause skin irritation.

**Eyes**

May cause eye irritation.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Water)

**Synergistic effects**

No data available

**Additional Information**

RTECS: Not available

**SECTION 12. ----- ECOLOGICAL INFORMATION -----**

**Toxicity**

No data available

**Persistence and degradability**

Not applicable

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available (Water)

**PBT and vPvB assessment**

No data available

**Other adverse effects**

No data available

**SECTION 13. ----- DISPOSAL CONSIDERATIONS -----****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

**SECTION 14. ----- TRANSPORT INFORMATION -----****DOT (US)**

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

**SECTION 15. ----- REGULATORY INFORMATION -----**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

**SECTION 16. ----- OTHER INFORMATION -----**

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**Disclaimer**

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**Issuing Date:** 09-Aug-2019

**End of SDS**



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## CERTIFICATE OF ANALYSIS

Product	BSA Standard Solution (Bovine Serum Albumin), 20mg/ml
Grade	High Purity
Product Code	AJ642
Formula	N/A
MW	N/A
CAS#	N/A
Lot No	

Test Items	Specifications	Results
Appearance	Liquid	
Total BSA	19.0-21.0 mg/ml	
Contain Sodium Azide	0.1%	

Storage: 2-8°C

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## **PRODUCT INFORMATION**

### **BSA Standard Solution**

***Product information for AJ642 (BSA Standard Solution):***

#### **Description**

BBi BSA Standards are high-quality reference samples for generating accurate standard curves and calibration controls in total protein assays.

The bovine serum albumin (BSA) solution is protein concentration reference standards for use in BCA, Bradford and other protein assay protocols. BSA is the universally accepted reference protein for total protein quantitation. The albumin standard is precisely formulated at 20mg/mL in saline buffer. Rotease is not detected.

#### **Components**

Total BSA:	19.0-21.0mg/ml
Sodium azide:	0.1%

#### **Applications**

- Protein assay quantitation standard (BCA Protein Assay, Coomassie-Bradford Assay, etc.)
- Protein recovery control for desalting and other column procedures
- Loading control for SDS-PAGE
- General calibration of spectrophotometer UV-lamp (absorbance at 280nm)

**Storage:** 2~8°C