

SAFETY DATA SHEET

SDS DATE: December 30, 2020

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Human Platelet Isolation Kit

PRODUCT CODES: Cat. #K2071-25

RESTRICTIONS ON USE: For laboratory research purposes. Not for drug or household use.

MANUFACTURER: BioVision, Inc.

ADDRESS: 155 S. Milpitas Boulevard, Milpitas, CA 95035

EMERGENCY PHONE: 858-373-8066

OTHER CALLS: 408-493-1800

FAX PHONE: 408-493-1801

SECTION 2: HAZARDS IDENTIFICATION

Components	Description	Volume	Safety Information
Gradient Dilution Buffer	Proprietary (contains EDTA)	110 ml	See Below
Density Gradient Media	Liquid	25 ml	No hazards
Platelet Storage Media	Proprietary	50 ml x 2	No hazards
BSA Solution	Liquid (contains BSA)	5 ml	See Below
Viability Stain	--	1 vial	No hazards

EDTA:

Emergency Overview

GHS Classification: Eye irritation (Category 2A), H319
Short-term (acute) aquatic hazard (Category 3), H402

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s): H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Precautionary statement(s): P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard:
Chronic Health Hazard:
Flammability:
Physical hazards:

NFPA Rating

Health hazard:
Fire:
Reactivity Hazard:

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Bovine Serum Albumin (BSA):

Emergency Overview

GHS Classification: Acute Toxicity; Oral, Category 4

GHS Label elements, including precautionary statements

SAFETY DATA SHEET

SDS DATE: December 30, 2020



Pictogram:

Signal word:

Warning

Hazard statement(s):

H302: Harmful if swallowed.

Precautionary statement(s):

P264: Wash {hands} thoroughly after handling.

P301+312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

Adverse Human Health:

Harmful if swallowed.

Effects and Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract.

May be harmful by inhalation or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health Hazard: 1

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful by inhalation. Material may be irritating to the mucous membranes and upper respiratory tract.

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: Cause eye irritation.

Ingestion: Harmful if swallowed

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula	Concentration
EDTA	60-00-4	200-449-4	292.24	C ₁₀ H ₁₆ N ₂ O ₈	<0.2%
BSA	9048-46-8	232-936-2	--	--	≤1%

SECTION 4: FIRST AID MEASURES

EDTA:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Bovine Serum Albumin (BSA):

If inhaled: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

In case of skin contact: Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

In case of eye contact: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

If swallowed: Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. DO NOT induce vomiting unless directed to do so by medical personnel.

SECTION 5: FIRE-FIGHTING MEASURES

EDTA:

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: No data available

Bovine Serum Albumin (BSA):

Suitable extinguishing media: Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable extinguishing media: A solid water stream may be inefficient.

Special protective equipment for fire fighters: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Further information: No data available

SAFETY DATA SHEET

SDS DATE: December 30, 2020



SECTION 6: ACCIDENTAL RELEASE MEASURES

EDTA:

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Bovine Serum Albumin (BSA):

Personal precautions, Protective equipment and emergency procedures: Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

Environmental precautions: Take steps to avoid release into the environment, if safe to do so.

Methods for cleaning up: Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations

SECTION 7: HANDLING AND STORAGE

EDTA:

Precautions for safe handling: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place. Storage class (TRGS 510): 11: Combustible Solids

Bovine Serum Albumin (BSA):

Precautions for safe handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or repeated exposure.

Conditions for safe storage: Keep container tightly closed. Store in accordance with information listed on the product insert.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EDTA:

Control parameters:

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin 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.

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.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Bovine Serum Albumin (BSA):

Exposure Controls:

CAS#	Partial Chemical Name	Britain EH40	France VL	Europe
9048-46-8	Bovine Serum Albumin (BSA)	No data	No data	No data
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other limits
9048-46-8	Bovine Serum Albumin (BSA)	No data	No data	No data

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	EDTA	BSA
Appearance:	White powder	A dry powder

SAFETY DATA SHEET

SDS DATE: December 30, 2020



pH:	2.5 at 10 g/l at 23 °C (73 °F)	No data available
Water Solubility:	0.4 g/l at 20 °C (68 °F)	No data available
Other Solubility:	No data available	No data available
Boiling Point (°C):	No data available	No data available
Melting Point (°C):	250 °C (482 °F) - dec	No data available
Flash Point (°C):	Not applicable	No data available
Ignition Temperature (°C):	No data available	No data available
Density:	1.46 g/cm ³ at 20 °C (68 °F)	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	EDTA	BSA
Chemical stability:	Stable under recommended storage conditions	
Conditions to avoid:	No data available	No data available
Materials to avoid:	Strong oxidizing agents	No data available
Hazardous decomposition products:	Carbon oxides, Nitrogen oxides (NOx) (fire condition)	No data available

SECTION 11: TOXICOLOGICAL INFORMATION

EDTA:

Acute toxicity: LD50 Oral - Rat - male and female - 4,500 mg/kg (OECD Test Guideline 401)

Inhalation: No data available

Dermal: No data available

Skin corrosion/irritation: Skin – Rabbit; Result: No skin irritation - 20 h Remarks: (ECHA)

Serious eye damage/eye irritation: Eyes – Rabbit; Result: Eye irritation; Remarks: (ECHA)

Respiratory/skin sensitization: Maximisation Test - Guinea pig; Result: negative (OECD Test Guideline 406)

Remarks: (in analogy to similar products); Maximisation Test - Rabbit

Germ cell mutagenicity: No data available

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.

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

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

Reproductive toxicity: No data available

Teratogenicity: No data available.

Signs and Symptoms of Exposure: No data available

Additional Information: RTECS: AH4025000

Bovine Serum Albumin (BSA):

The toxicological effects of this product have not been thoroughly studied.

SECTION 12: ECOLOGICAL INFORMATION

EDTA:

Toxicity: Toxicity to fish static test LC50 - Lepomis macrochirus (Bluegill sunfish) - 41 mg/l - 96 h Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 625 mg/l - 24 h (DIN 38412)

Persistence and degradability: Biodegradability aerobic - Exposure time 20 d Result: 0 - 20 % - Not readily biodegradable. Remarks: (ECHA) Ratio BOD/ThBOD < 1 % Remarks: (IUCLID)

Bio accumulative potential: Bioaccumulation Lepomis macrochirus - 28 d at 21 °C - 80 µg/l (Edetic acid) Bioconcentration factor (BCF): 1.8

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life. May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment

Bovine Serum Albumin (BSA):

Toxicity: Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Persistence and degradability: No data available

Toxicity: No data available

Bio accumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

EDTA:

SAFETY DATA SHEET

SDS DATE: December 30, 2020



Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product

Bovine Serum Albumin (BSA):

Waste Disposal Method: Dispose in accordance with local, state, and federal regulations

SECTION 14: TRANSPORT INFORMATION

EDTA:

DOT (US): UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Edetic acid) Reportable Quantity (RQ): 5000 lbs Poison Inhalation Hazard: No

IMDG: Not dangerous goods.

IATA: Not dangerous goods

Bovine Serum Albumin (BSA):

DOT (US): Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

SECTION 15: REGULATORY INFORMATION

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title II, Section 313.

SARA 311/312 Hazards: EDTA: Acute Health Hazard

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right to Know Components: No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right to Know Components: No components are subject to the New Jersey Right to Know Act

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

EU regulations

Component	Risk Phrases	Safety Phrases
EDTA	--	--
BSA	--	--

SECTION 16: OTHER INFORMATION

DISCLAIMER:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.