Cat# K6573-25 EZ-Albumin Depletion kit (Spin Column)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **EZ-Albumin Depletion kit (Spin Column)**

PRODUCT CODES: Cat# K6573-25

MANUFACTURER: BioVision, Inc.

DIVISION:

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

EMERGENCY PHONE: 858-373-8066

CHEMTREC PHONE:

OTHER CALLS: 408-493-1800 **FAX PHONE:** 408-493-1801

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
EZAlbumin Binding Buffer	Proprietary buffer	33 ml	No hazards
EZAlbumin Binding Spin Column	25 columns (contains Ethanol >1%)	25 column	See below
EZAlbumin Elution Buffer	Proprietary buffer (contains proprietary reagent >1%)	25 ml	See below

SDS DATE: Mar 10, 2015

NOTE: The safety data shown below is based on pure ingredients: The amounts in this kit are far less.

SECTION 3: HAZARDS IDENTIFICATION

Component	CAS Number	EC-No.	Molecular Weight	Chemical Formula
Ethanol	64-17-5	200-578-6	46.07	C_2H_6O
PROPRIETARY REAGENT				

Ethanol:

Emergency Overview

GHS Classification: Flammable liquids (Category 3) GHS Label elements, including precautionary statements

Pictogram:



Signal word: Warning

Hazard statement(s): H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapor.

with water/ shower.

Precautionary statement(s): P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

HMIS Classification

Health hazard: 2 Chronic health hazard: * Flammability: 2 Physical hazards: 0 NFPA Rating Health Hazard: 2

Fire: 2

Reactivity Hazard: 0

PROPRIETARY REAGENT:

GHS Classification: Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Eye irritation (Category 2A), H319

PAGE 1 OF 5

Cat# K6573-25 EZ-Albumin Depletion kit (Spin Column)

Acute aquatic toxicity (Category 3), H402 Chronic aquatic toxicity (Category 3), H412

GHS Label elements, including precautionary statements

Pictogram:

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Signal word: Warning

Hazard statement(s): H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s): P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P280 Wear protective gloves/ protective clothing.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse

SDS DATE: Mar 10, 2015

mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/

physician if you feel unwell.

. P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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.

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/ container to an approved waste disposal plant.

HMIS Classification

Health hazard: 2 Chronic health hazard: *

Flammability: 0
Physical hazards: 0

NFPA Rating

Health Hazard: 2

Fire: 0

Reactivity Hazard: 0

SECTION 4: FIRST AID MEASURES

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: DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

ohysician.

SECTION 5: FIRE-FIGHTING MEASURES

Ethanol:

Condition of flammability: Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

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

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary. Hazardous combustion products: Hazardous combustion products formed under fire conditions— no data available.

Further information: Use water spray to cool unopened containers.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

SECTION 7: HANDLING AND STORAGE

Cat# K6573-25 EZ-Albumin Depletion kit (Spin Column)

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – no smoking. Take measures to prevent the build up of electrostatic charge.

SDS DATE: Mar 10, 2015

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: -20°C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ethanol:

Components	CAS-No.	Value	Control parameters	Basis	
Ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)	
Remarks:	Remarks: Upper respiratory tract irritation. Confirmed animal carcinogen with unknown relevance to humans.				
		TWA	1,000 ppm	USA. OSHA: TABLE Z-1 Limits for Air	
		IVVA	1,900 mg/m ³	Contaminants – 1910.1000	
		TWA	1,000 ppm	USA. Occupational Exposure Limits (OSHA):	
		IVVA	1,900 mg/m ³	Table Z-1 Limits for Air Contaminants	
The value in mg/m³ is approximate.					
		TWA	1,000 ppm 1,900 mg/m ³	USA. NIOSH recommended exposure limits	

PROPRIETARY REAGENT:

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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

Tightly fitting safety goggles. Face shield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

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

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Ethanol	PROPRIETARY REAGENT	
Appearance:	Clear liquid	Yellow solid	
pH:	No data available	No data available	
Water Solubility:	Completely soluble	100 g/l at 20 °C (68 °F)	
Other Solubility:	No data available	No data available	
Boiling Point (°C):	78-80 °C (172.4-176 °F)	No data available	
Melting Point (°C):	-144 °C (-227.2 °F)	158-160 °C (316-320 °F)	
Flash Point (°C):	14 °C (57.2 °F)	No data available	
Ignition Temperature (°C):	363 °C (685°F)	No data available	
Density:	0.79 g/cm ³	No data available	

SECTION 10: STABILITY AND REACTIVITY

Property	Ethanol	PROPRIETARY REAGENT	
Chemical stability:	Stable under recommended storage conditions		
Conditions to avoid:	Heat, flames, sparks, extreme temperatures, direct sunlight No data availab		
Materials to avoid:	Oxidizing agents, alkali metals, ammonia, peroxides	Acids, Strong bases, Strong oxidizing agents	
Hazardous decomposition products:	Carbon oxides	No data available	

Cat# K6573-25 EZ-Albumin Depletion kit (Spin Column)

SECTION 11: TOXICOLOGICAL INFORMATION

Ethanol:

Acute toxicity: LD50 Oral - rat - 7,060 mg/kg→ Remarks: Lungs, thorax, or respiration: other changes

LC50 Inhalation - rat - 10 h - 20000 ppm

Skin corrosion/irritation: Skin – rabbit – irritating to skin – 24 h

Serious eye damage/eye irritation: Eyes - rabbit - mild eye irritation - 24 h (Draize test)

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: Carcinogenicity - mouse - oral → Tumorigenic: equivocal tumorigenic agent by RTECS criteria. Liver: tumors. Blood: Lymphomas including Hodgkin's disease.

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

SDS DATE: Mar 10, 2015

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: Reproductive toxicity - human - female - oral → Effects on newborn: appar score (human only), other neonatal

measures or effects, and drug dependence.

Teratogenicity: no data available

Specific target organ toxicity - single exposure (GHS): Inhalation - may cause respiratory irritation.

Specific target organ toxicity - repeated exposure (GHS): no data available

Aspiration hazard: no data available

Potential Health Effects

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

Signs and Symptoms of Exposure: Exposure may cause central nervous system depression, narcosis, and/or damage to the heart. To the

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

Synergistic effects: no data available Additional information: RTECS: KQ6300000

PROPRIETARY REAGENT:

Acute toxicity: LD50 Oral - Rat - 764 mg/kg

Remarks: Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.

Inhalation: No data available Dermal: No data available

No data available

Skin corrosion/irritation: Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 5 min (EPISKIN Human Skin Model Test)

Serious eve damage/eve irritation: no data available Respiratory or skin sensitization: in vivo assay - Mouse

Result: Does not cause skin sensitisation.

(OECD Test Guideline 429) Germ cell mutagenicity:

Mouse lymphocyte Result: negative Carcinogenicity:

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

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.

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

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

Specific target organ toxicity – single exposure (GHS): no data available.

Specific target organ toxicity – repeated exposure (GHS): no data available

Signs and Symptoms of Exposure: Exposure may cause abdominal pain, nausea, headache, sneezing, and/or vomiting. To the best of our

knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional information: RTECS: --

Cat# K6573-25 EZ-Albumin Depletion kit (Spin Column)

SECTION 12: ECOLOGICAL INFORMATION

PROPRIETARY REAGENT:

Persistence and degradability: no data available

Toxicity: Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 233 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 11 mg/l - 48 h

Bioaccumulative potential: no data available 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

SDS DATE: Mar 10, 2015

life with long lasting effects.

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Ethanol:

DOT (US): UN-number: 1170, Class: 3, Packing group: II; Proper shipping name: Ethanol; Marine pollutant: No; Poison inhalation hazard: No IMDG: UN-number: 1170, Class: 3, Packing group: II; EMS-No: F-E, S-D; Proper shipping name: ETHANOL; Marine pollutant: No IATA: UN-number: 1170, Class: 3, Packing group: II; Proper shipping name: Ethanol

PROPRIETARY REAGENT:

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: chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

Ethanol: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: Ethanol, CAS-No. 64-17-5, Revision Date: 2007-03-01

Pennsylvania Right To Know Components:

Ethanol, CAS-No. 64-17-5, Revision Date: 2007-03-01

PROPRIETARY REAGENT, CAS-No. -

New Jersey Right To Know Components:

Ethanol, CAS-No. 64-17-5, Revision Date: 2007-03-01

PROPRIETARY REAGENT, CAS-No. -

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
Ethanol	R11, R20/21/22	S16, S36/37/39, S45
PROPRIETARY REAGENT		

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 fro