



Revision Date: November 22, 2017



SECTION 1: I	DENTIFICATION	
Product Name:	Latex-in-a-Box [™] - Latex Conjugation Kits	
Catalog Number(s):	LIB02-G### Latex-in-a-Box conjugation kit, 2.5% Green 0.2 micron latex particles LIB02-O### Latex-in-a-Box conjugation kit, 2.5% Orange 0.2 micron latex particles LIB03-B### Latex-in-a-Box conjugation kit, 2.5% Blue 0.3 micron latex particles LIB03-R### Latex-in-a-Box conjugation kit, 2.5% Red 0.3 micron latex particles	
Manufacturer:	BioAssay Works [®] 10075 Tyler Place Suite 18 Ijamsville, MD 21754	
Product Information:	1-301-874-8888	
Emergency Phone Nu	umber: Contact Local Poison Control Center or 1-800-222-1222	
Transport Emergency	CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)	

The product should be handled by trained laboratory personnel in a laboratory environment as indicated on the package insert/instructions. Not for consumption.

SECTION 2: HAZARD(S) IDENTIFICATION

➢ Part Number LP##-X### 2.5% Color-Dye	d Latex Particles:
GHS Classification: GHS, not classifie Signal Word: NON-HAZARD	d as a hazard.
Pictogram: N/A	
Hazard Statements: N/A	
Precautionary Statements: • P301 +	P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
• P301 +F	P330 + P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
• P302 +	P352: IF ON SKIN: Wash with plenty of soap and water.
• P305 +	P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
• P351:	Rinse cautiously with water for several minutes.
• P361:	Remove/Take off immediately all contaminated clothing.
Hazards not otherwise classified: none	
Part Number BUFA-### Buffer Solution A:	GHS, not classified as a hazard.
Part Number BUFB-### Buffer Solution B:	GHS, not classified as a hazard.
➢ Part Number BUFC-### Buffer Solution C:	GHS, not classified as a hazard.

> Part Number BUFD-### Buffer Solution D:

Buffer Solution D is an aqueous solution containing approximately 93% water and less than 7% dissolved potassium carbonate. There is no data available on the toxicity, hazards, or precautions of potassium carbonate at the supplied, dissolved concentration. The following information pertains to potassium carbonate in its undiluted, anhydrous state. The dilution of potassium carbonate as supplied with this product mitigates its toxicity and any hazards it may present; however, the extent of mitigation is unknown.

Classification:

Pictograms:

OSHA Regulatory Status: This chemical is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Classification: Acute toxicity, Oral (Category 4) Skin corrosion/irritation (Category 1) Serious eye damage/eye irritation (Category 1) Specific target organ toxicity - single exposure (Category 3), Respiratory system

Signal Word: DANGER

Hazard Statements: H335: May ca

- H335: May cause respiratory irritation
- H336: May cause drowsiness or dizziness
- H302: Harmful if swallowed
- H314: Causes severe skin burns and eye damage

Precautionary Statements:

- P264 Wash face, hands, and any exposed skin thoroughly after handlingP260 Do not breathe dust/fume/gas/mist/vapors/spray
- P270 Do not eat, drink, or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P310 Immediately call a POISON CENTER or doctor/physician
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.
- P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
- P363 Wash contaminated clothing before reuse
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
- P312 Call a POISON CENTER or doctor/physician if you feel unwell
- P301+P312 IF SWALLOWED: call a POISON CENTER/doctor if you feel unwell.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- P405 Store locked up
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P501 Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC): none

Part Number BLK-###
BSA Blocking Stabilizer Solution: The BSA Blocking Stabilizer Solution is an aqueous solution containing approximately 92% water and less than 8% dissolved components. There is no data available on the toxicity, hazards, or precautions at the supplied concentrations of the dissolved components. The following information pertains to the components in their undiluted states. The dilution of the components as supplied with this product mitigates their toxicity and any hazards they may present; however, the extent of mitigation is unknown.

Classification:

- OSHA Regulatory Status: This chemical is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
- GHS Classification: Acute toxicity, Oral (Category 4) Skin corrosion (Category 1B) Serious eye damage (Category 1) Skin sensitization (Category 1) Specific target organ toxicity - single exposure (Category 3), Respiratory system Acute aquatic toxicity (Category 1)

Signal Word: DANGER



Hazard Statements:	H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction H335 May cause respiratory irritation
	H400 Very toxic to aquatic life

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray Precautionary Statements: P264 Wash skin thoroughly after handling P271 Use only outdoors or in a well-ventilated area P272 Contaminated work clothing should not be allowed out of the workplace P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention

P363 Wash contaminated clothing before reuse

P391 Collect spillage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed P405 Store locked up

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

Hazards not otherwise classified (HNOC): none

Part Number CDB-### Latex Conjugate Drying Buffer: The Latex Conjugate Drying Buffer is an aqueous solution containing approximately 50% sucrose and 10% methanol. There is no data available on the toxicity, hazards, or precautions at the supplied concentrations of the dissolved components. The following information pertains to the components in their undiluted states. The dilution of the components as supplied with this product mitigates their toxicity and any hazards they may present; however, the extent of mitigation is unknown. Classification: This chemical is considered hazardous by the OSHA Hazard Communication OSHA Regulatory Status: Standard (29 CFR 1910.1200) GHS Classification: Flammable liquids (Category 2) Acute toxicity, Oral (Category 3) Acute toxicity, Inhalation (Category 3) Acute toxicity, Dermal (Category 3) H311 Specific target organ toxicity - single exposure (Category 1) Signal Word: DANGER Pictograms: Hazard Statements: H225 Highly flammable liquid and vapor H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled H370 Causes damage to organs

Precautionary Statements:	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	
	P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ 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	
	P280 Wear protective gloves/ eye protection/ face protection	
	P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON	
	CENTER/doctor. Rinse mouth	
	P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all	
	contaminated clothing. Rinse skin with water/shower	
	P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor	
	P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician	
	P362 Take off contaminated clothing and wash before reuse	
	P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish	
	P403 + P233 Store in a well-ventilated place. Keep container tightly closed	
	P403 + P235 Store in a well-ventilated place. Keep cool	
	P405 Store locked up	
	P501 Dispose of contents/ container to an approved waste disposal plant.	
Hazards not otherwise classified (HNOC): none		

Hazards not otherwise classified (HNOC): none

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

	Latex Particles, Part Numbers LP##-X###	 Color-dyed latex microspheres in an aqueous solution containing less than 5% benzene, ethenyl-, homopolymer (polystyrene - CAS # 9003-53-6)
	•	perazineethanesulfonic acid, 4-(2-hydroxyethyl)- (CAS # 7365-45-9) in queous solution
		Hydroxyethyl)piperazine-1-ethanesulfonic acid sodium salt (CAS # 77-39-3) in aqueous solution
\triangleright	Buffer C, Part Numbers BUFC-###. Pota	ssium hydrogen carbonate (CAS # 298-14-6) in aqueous solution
\triangleright	Buffer D, Part Numbers BUFD-###. Pota	ssium carbonate (CAS # 584-08-7) in aqueous solution
	BSA Blocking Solution, Part Numbers BLk	C-###. BSA (CAS # 9048-46-8) in an aqueous solution with 0.1% ProClin [®] 950 (CAS # 2682-20-4) preservative
\triangleright	Latex Conjugate Drying Buffer, Part Numb	ers CDB-###. 50% Sucrose (CAS # 57-50-1) and 10% Methanol

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. Treat symptomatically.

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

- **Skin Contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and copious amounts of water. Consult a physician.
- **Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are listed in Sections 2 and 11.

Indication of immediate medical attention and special treatment needed, if necessary: No Data Available

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide Specific hazards arising from the substance or mixture: Carbon oxides, Nitrogen oxides (NO_x), Sulfur oxides Special protective equipment and precautions for fire-fighters: Wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

(CAS # 67-56-1) in an aqueous solution

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Avoid contact with skin, eyes and clothing. Use personal protective equipment (refer to Section 8). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Methods and materials for containment and cleaning up: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed/sealed containers for disposal (refer to Section 13).

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Handle in accordance with cGMP, good industrial hygiene and safety practice. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Conditions for safe storage, including any incompatibilities: Keep containers tightly closed in a wellventilated place. Recommended storage temperature: 20-25°C, except BSA Blocking Solution, Part Number BLK-###, must be stored refrigerated, 2-8°C. Containers that have been opened must be carefully resealed

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits: Contains no substances with occupational exposure limit values

Engineering controls: Showers, eyewash stations and ventilation systems - Handle in accordance with cGMP, good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

Personal Protective Equipment:

Eye/face protection: Snuggly fitting safety goggles or faceshield (8 inch minimum) - Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (U.S.) or EN 166 (E.U.)

and kept upright to prevent leakage.

- **Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the glove's outer surface) to avoid possible skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and cGMP. Wash hands with soap and copious amounts of water.
- **Body protection:** Complete suit protecting against chemicals The type of protective equipment must be chosen according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multipurpose combination (U.S.) 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 (U.S.) or CEN (E.U.).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Various - component dependent
Odor:	No Data Available
Odor Threshold:	No Data Available
pH:	Various - component dependent
Melting Point/Freezing Point:	No Data Available
Initial Boiling Point and Boiling Range:	Various - component dependent
Flash Point:	No Data Available
Evaporation Rate:	No Data Available
Flammability (solid, gas):	No Data Available (most components are non-flammable liquids)
Upper/Lower Flammability or Explosive Limits:	No Data Available (most components are non-flammable liquids)
Vapor Pressure:	No Data Available
Vapor Density:	No Data Available
Relative Density:	Various - component dependent
Solubility:	Various - component dependent
Partition Coefficient: n-octanol/water:	No Data Available
Auto-Ignition Temperature:	No Data Available
Decomposition Temperature:	No Data Available
Viscosity:	No Data Available
Explosive Properties:	No Data Available (Not Applicable)
Oxidizing Properties:	No Data Available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No Data Available

Chemical Stability: Stable under recommended storage conditions (refer to Section 7)

Possibility of Hazardous Reactions: No Data Available

Conditions to Avoid: No Data Available

Incompatible Materials: Strong oxidizing agents, Amines, Mercaptans, Reducing agents

Hazardous Decomposition Products: Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

LD50 **Oral** - rat - female - 1,091 mg/kg LD50 **Oral** - rat - male - 2,834 mg/kg

Inhalation: No Data Available

LD50 Dermal - rabbit - > 5,000 mg/kg

Skin corrosion/irritation:

Skin - rabbit Result: Causes severe burns.

Serious eye damage/eye irritation Eyes - rabbit Result: Corrosive

Respiratory or skin sensitization

Guinea pig - May cause allergic skin reaction.

Germ cell mutagenicity

No Data Available

Carcinogenicity

- IARC: No component of this product which is 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 which is 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 which is 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 which is 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

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure No Data Available

Aspiration hazard No Data Available

Additional Information RTECS: Not Available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life

Persistence and Degradability: No Data Available

Bioaccumulative Potential: No Data Available

Mobility in Soil: No Data Available

Other Adverse Effects: No Data Available - An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated Packaging: Dispose of as unused product (refer to above paragraph)

SECTION 14: TRANSPORT INFORMATION

U.S. DOT HAZARD CLASSIFICATION

Proper Shipping Name: Not Regulated UN Number: Not Applicable Hazard Class/Packing Group: Not Applicable Labels Required: None DOT Packaging Requirements: Not Applicable Exceptions: Not Applicable

IATA/ICAO AIR TRANSPORTATION

Proper Shipping Name: Not Regulated UN Number: Not Applicable Hazard Class/Packing Group: Not Applicable Labels Required: None IATA Packaging Requirements: Not Applicable

IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

REACH Number:	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.	
SARA 302 Component	s: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.	
SARA 313 Component	Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This material contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 371.	
SARA 311/312 Hazard	s: Acute Health Hazard	
California Proposition 6	5: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.	

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