



# SAFETY DATA SHEET

**Product Name** Library Prep Kit for myBaits® (32 or 128 reactions)  
**Product Number** 910032 or 910128  
**Kit Components** Library Prep Kit for myBaits®  
Box A  
Box B

## 1. COMPANY AND PRODUCT IDENTIFICATION

**Kit Component Name** Library Prep Kit for myBaits® (32 or 128 reactions)  
Box A  
- Frag/AT Buffer 150-590 uL  
- Frag/AT Enzymes 220-890 uL  
- Ligation Mix 740-1480 uL  
- Amplification Mix 1150-1550 uL  
- P5/P7 Primer Mix 230-920 uL  
Box B  
- SPRI Beads 7.5 mL  
- Buffer P 5.0 mL

**Product Number** 910032 or 910128

**Recommended use** For research use only  
**Uses advised against** No information available

**Supplier Address** Daicel Arbor Biosciences  
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**Email** [techsupport@arbor.daicel.com](mailto:techsupport@arbor.daicel.com)  
**Phone** + 1 (734) 998-0751

**Emergency Phone Number** +1 (800) 222-1222 (American Association of Poison Control Centers)  
Available 24 hours everyday

## 2. HAZARD(S) IDENTIFICATION

### Emergency Overview

**Box A - Harmful if swallowed. May cause skin irritation. Use prudent laboratory practices for handling chemical substances.**

### OSHA/HCS status

Frag/AT Buffer (Tetramethylammonium chloride)	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
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**Appearance** Clear, colorless      **Physical State** Liquid      **Odor** Mild

**Box B** - While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. Use prudent laboratory practices for handling chemical substances.

**Appearance** Clear, slightly amber      **Physical State** Liquid      **Odor** Odorless

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Library Prep Kit for myBaits® is a mixture of hazardous substances and non-hazardous substances. The exact concentration percentages of those substances may be withheld as a Daicel Arbor Biosciences trade secret.

Component	CAS-No	%
Tetramethylammonium chloride	75-57-0	>5 - <6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### 4. FIRST-AID MEASURES

#### General Advice

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove from exposure, lie down. Do not breathe dust/fume/gas/mist/vapors/spray.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation continues consult a physician.

**Skin Contact** Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. If irritation continues consult a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Ingestion** Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person.

**Note to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use an extinguishing agent suitable for the surrounding fire.

### **Unsuitable Extinguishing Media**

None known.

### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors:

- Carbon dioxide
- Carbon monoxide
- Nitrogen oxides
- Halogenated compounds
- Metal oxide/oxides

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions**

Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing.

### **Personal Protective Equipment [PPE]**

Use personal protection recommended in Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### **Environmental Precautions**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### **Methods for Containment**

Prevent further leakage or spillage if safe to do so.

### **Methods for Cleaning Up**

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Dispose of via a licensed waste disposal contractor.

## 7. HANDLING AND STORAGE

### **Advice on Safe Handling**

Handle in accordance with good industrial hygiene and safety practice.

### **Storage Temperature**

Refer to Product Manual available at [www.arborbiosci.com](http://www.arborbiosci.com) for specific information.

### **Storage Conditions**

Keep/store only in original container. Keep tightly closed in a dry and cool place.

### **Incompatible Materials**

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational exposure limits

Ingredient name	Exposure limits
Tetramethylammonium chloride	None

### Engineering Measures

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment (PPE)

Refer to OSHA's regulations in 29 CFR 1910.133 or European Standard EN166 for eye/face protection and 29 CFR 1910.134 or European standard EN149 for respiratory protection.

*Eye/face Protection*

Wear safety glasses with side shields (or goggles).

*Skin and Body Protection*

Wear suitable protective clothing and gloves.

*Respiratory Protection*

Use in well ventilated areas.

*General Hygiene Considerations*

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State Liquid

Appearance Box A – Clear  
Box B – Slightly amber

Oder Box A – Mild  
Box B – Odorless

pH Box A 7-8.5  
Box B 7-7.5

Melting Point/Freezing Point No information available

Boiling Point/Boiling Range No information available

Flash Point No information available

Evaporation Rate Flammability (solid, gas) No information available

Flammability Limit in Air No information available

Upper Flammability Limit No information available

Lower Flammability Limit No information available

Vapor Pressure No information available

Vapor Density No information available

Relative Density No information available

Specific Gravity No information available

Water solubility No information available

Solubility in Other Solvents No information available

Partition Coefficient No information available

Autoignition Temperature No information available

Decomposition Temperature No information available

Kinematic Viscosity No information available

Dynamic Viscosity No information available

Explosive Properties No information available

Oxidizing Properties No information available

**Other Information**

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk Density	No information available

**10. STABILITY AND REACTIVITY**

<b>Reactivity</b>	No data available.
<b>Stability</b>	Stable under Normal Conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Incompatible materials. Ignition sources. Strong heating.
<b>Incompatible Materials</b>	Oxidizing agents. Strong acids or bases.
<b>Hazardous Decomposition Products</b>	Carbon oxides (CO, CO <sub>2</sub> ).

**11. TOXICOLOGICAL INFORMATION****Acute Toxicity**

Ingredient name	Result	Species	Dose	Exposure
Tetramethylammonium chloride	LD50 Oral	Rat	50 mg/kg	-

<i>Inhalation</i>	Causes damage to organs following a single exposure if inhaled.
<i>Eye Contact</i>	No known significant effects or critical hazards.
<i>Skin Contact</i>	Causes damage to organs following a single exposure in contact with skin.
<i>Ingestion</i>	Harmful if swallowed. Causes damage to organs following a single exposure if swallowed.

**Chronic Toxicity**

<i>Skin Corrosion/Irritation</i>	No known significant effects or critical hazards.
<i>Serious Eye Damage/Eye Irritation</i>	No known significant effects or critical hazards.
<i>Irritation</i>	No known significant effects or critical hazards.
<i>Corrosivity</i>	No known significant effects or critical hazards.
<i>Sensitization</i>	
Skin	No known significant effects or critical hazards.
Respiratory	No known significant effects or critical hazards.
<i>Germ Cell Mutagenicity</i>	No known significant effects or critical hazards.
<i>Carcinogenicity</i>	No known significant effects or critical hazards.
<i>Reproductive Toxicity</i>	No known significant effects or critical hazards.
<i>Developmental Toxicity</i>	No known significant effects or critical hazards.
<i>Teratogenicity</i>	No known significant effects or critical hazards.
<i>STOT - Single Exposure</i>	No known significant effects or critical hazards.
<i>STOT - Repeated Exposure</i>	No known significant effects or critical hazards.
<i>Chronic Toxicity</i>	No known significant effects or critical hazards.
<i>Subchronic Toxicity</i>	No known significant effects or critical hazards.
<i>Target Organ Effects</i>	No known significant effects or critical hazards.
<i>Neurological Effects</i>	No known significant effects or critical hazards.
<i>Other Adverse Effects</i>	No known significant effects or critical hazards.
<i>Aspiration Hazard</i>	No known significant effects or critical hazards.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity (aquatic and terrestrial)** Do not empty into drains.

Ingredient name	Result	Species	Exposure
Tetramethylammonium chloride	Acute LC50 462 mg/L Fresh water	Fish – Pimephales promeias	96 hours

**Persistence and Degradability** No information available

**Bioaccumulative Potential** No information available

**Mobility in Soil** No information available

**Other Adverse Effects** *Ozone depletion potential (ODP)*  
No information available

## 13. DISPOSAL CONSIDERATIONS

### Relevant Information

Keep out of drains, sewers, ditches and waterways.

### Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Contaminated Packaging

Empty containers must be tripled rinsed prior to disposal.

## 14. TRANSPORT INFORMATION

**DOT** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA Exempt/Partial exemption – not determined  
DSL Complies  
NDSL Complies

### Legend

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## US Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

<i>Acute health hazard</i>	Yes (Tetramethylammonium chloride)
<i>Chronic Health Hazard</i>	No
<i>Fire hazard</i>	No
<i>Sudden Release of Pressure Hazard</i>	No
<i>Reactive Hazard</i>	No

### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

## State Regulations

**Massachusetts** The following components are listed: Glycerol

**New York** None of the components are listed.

**New Jersey** The following components are listed: Glycerol

**Pennsylvania** The following components are listed: Glycerol

### California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

## International Regulations

### Canada

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

Canadian NPRI Not Listed

WHIMIS (Canada) Not Classified

## 16. OTHER INFORMATION

### Training advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**FOR RESEARCH USE ONLY.**

**FOR IN VITRO USE ONLY.**

**NOT FOR USE IN HUMAN OR ANIMALS.**

**NOT FOR USE IN DIAGNOSTIC PROCEDURES.**

Revised: March 14, 2024

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