



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
5840 Interface Drive, Suite 101
Ann Arbor, MI 48103
USA

Email 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 - Toxic if swallowed. Causes damage to organs. May cause skin irritation. Use prudent laboratory practices for handling chemical substances.

OSHA/HCS status

**Frag/AT Buffer & Amplification Mix
(Tetramethylammonium chloride)**

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Appearance Clear, colorless **Physical State** Liquid **Odor** Mild

Classification

Acute Toxicity Oral
 STOT SE – may cause damage to organs

Category 3
 Category 1

Signal Word

Danger

**Hazard statements**

Toxic if swallowed
 Causes damage to organs

Precautionary Statements - 29 CFR 1910.1200

Wash face, hands and any exposed skin thoroughly after handling
 IF SWALLOWED: Immediately call a POISON CENTER or doctor
 If exposed or concerned: Get medical advice/attention
 Rinse mouth

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	>2 - <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 information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

Eye contact	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
Ingestion	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.
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

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

- Halogenated compounds
- Nitrogen oxides (NO_x)
- Carbon oxides (CO / CO₂)
- Some metal oxides

Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

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 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

Odor 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	No information available
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

Reactivity	Not reactive under recommended handling and storage conditions.
Stability	Stable under recommended handling and storage conditions.
Possibility of Hazardous Reactions	Hazardous reactions are not anticipated under recommended conditions of handling and storage.
Conditions to Avoid	Extreme heat, open flames, hot surfaces, sparks, ignition sources and incompatible materials.
Incompatible Materials	No specific requirements.
Hazardous Decomposition Products	The product is not degraded when used as specified in section 1.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Ingredient name	Result	Species	Dose	Exposure
Tetramethylammonium chloride	LD50 Oral	Rat	50 mg/kg	-
Glycerol	LD50 Oral	Rat	12600 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>	Toxic 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.

Sensitization

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 promelas	96 hours
Glycerol	LC50 51-57 mL/L	Fish – Oncorhynchus mykiss	96 hours

Persistence and Degradability	No information available
Bioaccumulative Potential	No information available
Mobility in Soil	No information available
Other Adverse Effects	<i>Ozone depletion potential (ODP)</i> 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	Listed	Tetramethylammonium chloride
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)	D1A – Very toxic material at ≥1%

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.

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