

# Material Safety Data Sheet

## Section 1. Chemical Product and Company Identification

**Common Name:** RapidSeq<sup>™</sup> High Yield Small RNA Sample Prep Kits  
RapidSeq<sup>™</sup> MasterMix Small RNA Sample Prep Kits

**Manufacturer:** Biochain Inst., Inc.  
39600 Eureka Drive  
Newark, CA 94560  
USA  
510.783.8588 or 1.888.762.2568

**Validation Date:** 10/03/2011

**MSDS#** KS071012, KS071012 I-IV, KS074012 and KS074012 I-IV

### Component/Item#

1. 10 mM ATP
2. RNase Inhibitor
3. T4 PNK
4. Cap Oligo
5. Tail Oligo
6. RT Oligo
7. Cap MasterMix
8. Tail MasterMix
9. RT MasterMix
10. PCR MasterMix
11. Terminator
12. Universal Primer
13. DNA Storage Solution
14. Aligner

## Section 2. Composition and Information on Hazardous (OSHA) Ingredients

1–5% (v/v) Aliphatic Triol, 15-25% Glycol Compound (v/v), 75%-95% dH<sub>2</sub>O (v/v), 7-13% Carbohydrate Compound (w/v), 10-30% Aminoacetic Acid (v/v), 1-5% Potassium Salt (w/v), 1-5% Chloride Salt (w/v), 3-7% Lithium Salt (w/v), and other constituents. Each of the other constituents is present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).

## Section 3. Hazards Identification

*Review approved and the most current institutional guideline, protocol, SOP(s) and MSDS(s) for the proper handling of institutional materials/equipment associated with the use of this BioChain product.*

**Routes of Entry:** Absorbed through skin. Dermal contact. Eye contact. Ingestion.

**Potential Acute Health Effects:** Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Slightly hazardous in case of skin contact (irritant). Hazardous in case of eye contact (irritant). Slightly hazardous in case of ingestion.

**Carcinogenic Effects:** Not listed by NTP, IARC or OSHA.

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

## Section 4. First Aid Measures

**Skin:** Wash exposed skin with mild soap and water. Get medical attention if irritation develops or persists.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.

**Ingestion:** If affected person is conscious, give plenty of water to drink. Seek medical attention. Wash contaminated clothing before reuse.

## Section 5. Fire Fighting Measures

**Flammability of the Product:** Not flammable.

**Flash Points:** Not available.

**Fire Fighting Procedures:**

**Small Fire:** Use DRY chemical powder.

**Large Fire:** Use water spray, fog or foam. Do not use water hose.

## Section 6. Accidental Release Measures

**Small Spill and Leak:**

Absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

## Section 7. Handling and Storage

**Handling:** Avoid contact with eyes, skin, and clothing. Keep container closed. Wash thoroughly after handling.

**Storage:** Keep container tightly closed and store in a refrigerator.

## Section 8. Exposure Controls/Personal Protection

Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Eyes and Face:** Splash goggles.

**Body:** Lab coat.

**Respiratory:** Be sure to use NIOSH/MSHA approved respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

**Hands:** Gloves.

Consult local authorities for acceptable exposure limits.

## Section 9. Physical and Chemical Properties

<b>Component</b>	<b>Physical State</b>	<b>Color</b>	<b>Odor</b>
10 mM ATP	Liquid	Clear	None
RNase Inhibitor	Liquid	Clear	None
T4 PNK	Liquid	Clear	None
Cap Oligo	Liquid	Clear	None
Tail Oligo	Liquid	Clear	None
RT Oligo	Liquid	Clear	None
Cap MasterMix	Liquid	Clear	None
Tail MasterMix	Liquid	Clear	None
RT MasterMix	Liquid	Clear	None
PCR MasterMix	Liquid	Clear	None
Terminator	Liquid	Clear	None
Universal Primer	Liquid	Clear	None
DNA Storage Solution	Liquid	Clear	None
Aligner	Liquid	Clear	None

## Section 10. Stability and Reactivity

**Stability and Reactivity:** The product is stable

**Incompatibility with Various Substances** No decomposition if used according to specifications. No dangerous reactions known.

## **Section 11. Toxicological Information**

**Primary Irritant Effects:** Harmful if ingested.

**On the Eye:** Cause eye irritation.

**Sensitization:** No sensitizing effects known.

## **Section 12. Ecological Information**

Data not yet available.

## **Section 13. Disposal Considerations**

**Waste Information:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to hazardous waste disposers.

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **Section 14. Transport Information**

Contact BioChain for all transport information.

## **Section 15. Regulatory Information**

**EINECS:** Not available.

**European Information:** Irritating to eyes, skin, and respiratory system. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

## **Section 16. Other Information**

Validated by BioChain Administration on 11/07/2011.

Verified by BioChain Administration.  
Printed 11/10/2011.

**Notice to Reader**

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