

Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name: *Broad Range Total RNA Isolation Kit (for Co-purifying Small and Large RNAs)*

Catalog Number: *K1341050*

Validation Date: 07/21/2006

MSDS# *K1341050*

Component/Item (and Parts number if listed)

Item	Part No.
1. Lysis Buffer	K1341050-1
2. Lysis Enhancer Solution	K1341050-2
3. Acidified Phenol:Chloroform	K1341050-3
4. Spin Column with Collection Tubes	K1341050-4
5. Wash Buffer 1	K1341050-5
6. Wash Buffer 2 (Concentrated)	K1341050-6
7. RNase-Free Water	K1341050-7
8. Elution Buffer	K1341050-8

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

All of the solutions in this kit: May cause eye and skin irritation.

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 BCI product.

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

Potential Acute Health Effects: Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Very hazardous in case of skin contact (irritant), of inhalation (lung 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.

Inhalation: Move victim to fresh air. If irritation persists, get medical attention.

Ingestion: Do induce vomiting. If affected person is conscious, give plenty of water to drink. Seek medical attention.

Section 5. Fire Fighting Measures

Not flammable



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Section 6. Accidental Release Measures

Small Spill and Leak:

Wear self-contained breathing apparatus. Shut off ignition sources; no flares, smoking or flames in the area. Dilute with water and mop up, or 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. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. 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

<i>Item</i>	<i>Physical State and Appearance</i>	<i>Color</i>
1. Lysis Buffer	Liquid	Clear
2. Lysis Enhancer Solution	Liquid	Clear
3. Acidified Phenol:Chloroform	Liquid	Clear
4. Spin Column with Collection Tubes	Solid	Clear
5. Wash Buffer 1	Liquid	Clear
6. Wash Buffer 2 (Concentrated)	Liquid	Clear
7. RNase-Free Water	Liquid	Clear
8. Elution Buffer	Liquid	Clear

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 BCI 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 Administration on 07/24/06 .

Verified by Administration.

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Notice to Reader

The information contained in this MSDS was obtained from sources we believe are reliable. However, the above information is provided without warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



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