

Material Safety Data Sheet

Trade name: LB (Lysis Buffer)
Date of Issue: October 19, 2005
Revised at: July 26, 2011



1. Identification of the Preparation and of the Company

Trade name: LB (Lysis Buffer); serves as RNA isolation component in the GenoType Mycobacteria Direct kit (VER 3.0 ff).
Product/Catalog Number: -
Component of Cat. Nos.: 4000, 4010
Identification of the company: **Hain Lifescience GmbH**
Hardwiesenstr. 1
72147 Nehren, Germany
Tel.: +49 (0) 74 73- 94 51- 0
Informing department: Tel.: +49 (0) 74 73- 94 51- 30
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2. Composition/Information on Ingredients

Preparation contains guanidine thiocyanate (CAS No. 593-84-0; Xn; R20/21/22-32-52/53; S26-36/37-61) and detergents.
Additional information: Full text of R- and S-phrases: see under section 15.

3. Hazardous Characteristics

Harmful.
Harmful by inhalation, in contact with skin and if swallowed. Contact with acids liberates toxic gas.
Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

Inhalation: Remove to fresh air.
Ingestion: Wash out mouth with copious amounts of water. Call a physician.
Skin contact: Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing.
Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

5. Fire-Fighting Measures

Suitable extinguishing media: Substance does not burn. Choose extinguishing media according to ambient conditions (you may use water spray, appropriate foam, dry chemical powder, CO₂).
Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Unusual fire and explosion measures: Vapor is heavier than air. May emit toxic gases or fumes under fire conditions.

6. Accidental Release Measures

Wear strong rubber gloves and chemical safety goggles. Remove spillage with absorbent material, place in a closed container, and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete.

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7. Handling and Storage

Handling: No further requirements.
Storage: Keep tightly closed and dry at 2-8°C and away from ignition sources and flammable and toxic substances. Avoid exposure to light.
Specific use: See instructions for use.

8. Exposure Limitation and Personal Protective Equipment

Wear suitable protective clothing, gloves, and chemical safety goggles. Close vial immediately after use. Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Appearance: liquid
Color: clear yellowish
Odor: none
pH: 6.3-6.7
Water solubility: yes
Crystallizes at low temperature. No data available for other parameters.

10. Stability and Reactivity

Stability: Stable; note expiry date and directions in the instructions for use.
Conditions to avoid: light; heating to decomposition or contact with acids or acid vapors can liberate poisonous cyanide vapors.
Incompatibilities: strong acids, strong oxidizing agents
Hazardous decomposition products: sulphur oxides, nitrogen oxides, carbon monoxide, carbon dioxide
Hazardous polymerization: will not occur

11. Toxicological Information

To the best of our knowledge, the chemical, physical, and toxicological properties of the substance have not been thoroughly investigated.
Effects boosted by exposition: May cause neural damage.

12. Ecological Information

No data available.

13. Disposal Considerations

Dispose of unused reagents and waste in accordance with federal, state, and local regulations.

14. Transport Information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR).

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15. Regulatory Information

Labeling:	Xn
Designation:	Harmful
R-phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R32: Contact with acids liberates toxic gas. R52/53: Harmful to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
S-phrases:	S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37: Wear suitable protective clothing and gloves. S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. Other Information

The above product is part of an in vitro diagnostic kit and shall be used by trained staff only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Hain Lifescience shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product.

This material safety data sheet was prepared according to the guidelines 1999/45/EC and 91/155/EC.

Changes compared to the previous version of this document

The following sections were changed: 1. Identification of the Preparation and the Company, 13. Disposal Considerations, 16. Other Information.