

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Products: NRL Nucleic Acid Testing External Quality Assessment Schemes (NAT EQAS)

Catalogue Numbers:	Product Names:
CNTP435/432	C. trachomatis, N. gonorrhoeae & T. vaginalis Molecular POC
DTSB435	Dried Tube Sample HBV Molecular POC
DTSC435	Dried Tube Sample HCV Molecular POC
DTSI435	Dried Tube Sample HIV and Early Infant Diagnosis Molecular POC
LEPN435	Leptospirosis Molecular
MTBN435/432	Mycobacterium Molecular POC
RESB435	Bacterial Plus Respiratory Molecular
RESP435	Viral Respiratory Molecular
RESV435	Extended Viral Respiratory Molecular

SECTION 2: HAZARD(S) IDENTIFICATION

Potentially Biohazardous Material:

This material has the potential to transmit infectious agents and should be handled according to Biosafety Level 2. Products for LEPN435 and MTBN435/432 have been heat inactivated. Products for RESP435 and RESV435 have been gamma-irradiated. Products for CNTP435/432, DTSB435, DTSC435 & DTSI435 have been rendered non-viable via a drying process. The other products have not been inactivated via heat, chemicals or radiation. In case of contact with eyes, rinse immediately with plenty of water and seek medical attention. Harmful if swallowed. Wear suitable protective clothing (lab coat, gloves, and safety glasses).

Phosphate buffered saline (PBS):

Not considered hazardous by the US OSHA Hazard Communication Standard 2024.

Bromophenol Blue (4-Aminoantipyrine):

Health hazards – Acute oral toxicity (Category 4), skin corrosion/irritation (Category 2), serious eye damage/eye irritation (Category 2) and specific target organ toxicity (single exposure) (Category 3).

Physical and Environmental hazards – No hazards identified.

Signal word – Warning

Precautionary statements – Do not breathe dust/fume/gas/mist/vapours/spray. Wear protective gloves and eye/face protection.

MEM (1x) with Earle's salts:

Health hazards – Serious eye damage/eye irritation (Category 2).

Precautionary statements – Wear eye/face protection.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

Component	Product(s)	CAS#	Percentage	Exposure Limit
Human serum	• LEPN435	Not applicable	Not applicable	None established
Human plasma	• DTSB435 • DTSC435 • DTSI435	Not applicable	Not applicable	None established
Phosphate buffered saline (PBS)	• CNTP435/432 • LEPN435 • MTBN435/432	None	Not applicable	None established
Leptospiral Broth	• LEPN435	Not applicable	Not applicable	None established

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MEM (1x) with Earle's salts	<ul style="list-style-type: none"> • RESB435 • RESP435 • RESV435 	10035-04-8 (calcium chloride, dihydrate)	0.1-10 (calcium chloride, dihydrate)	None established
Yellow food colour	<ul style="list-style-type: none"> • CNTP435/432 	Not applicable	Not applicable	None established
Bromophenol Blue (4-Aminoantipyrine)	<ul style="list-style-type: none"> • DTSB435 • DTSC435 • DTSI435 	83-07-8	>95	None established

SECTION 4: FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with a large amount of water for at least 15 minutes while holding the eyelids open to ensure that the entire surface is flushed. Seek medical attention.

Skin: In case of contact, immediately wash the contact area thoroughly with soap and a large amount of water for at least 15 minutes. Seek medical attention.

Inhalation: Remove to fresh air and seek medical attention.

Bromophenol Blue (4-Aminoantipyrine)- If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do not swallow the material. Never give anything by mouth to an unconscious or convulsing person. If conscious, rinse mouth with water. Seek medical attention.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent exposure to eyes and skin.

Unusual Fire and Explosion hazards: May emit toxic and/or irritating gases and vapours under fire conditions.

Bromophenol Blue (4-Aminoantipyrine) - Fine dust dispersed in air may ignite. Thermal decomposition can lead to release of irritating gases and vapours. Keep product and empty container away from heat and sources of ignition.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Promptly clean up all spills. Wear appropriate personal protective equipment to avoid exposure. Ensure adequate ventilation. Avoid dust formation.

Contain the spill. Absorb the spill using absorbent materials and decontaminate the spill with suitable disinfectant (such as bleach solution or another germicidal agent) according to local, state or federal guidelines.

Dispose of all cleanup materials in accordance with disposal practices for infectious waste at your institution. (Local, State, and Federal regulations may apply). Wash the spill area after material pick up is complete.

SECTION 7: HANDLING AND STORAGE

Handle this material as if capable of transmitting infectious agents. Observe routine biosafety precautions in handling. Use of personal protection to include, but not limited to, laboratory coat or gown, gloves and eye safety glasses is strongly recommended.

Bromophenol Blue (4-Aminoantipyrine) - Ensure adequate ventilation. Avoid dust formation. Avoid ingestion and inhalation. Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling. Store as labelled.

SECTION 8: EXPOSURE CONTROL & PERSONAL PROTECTION

Laboratory coat or gown, gloves, safety glasses

Emergency shower and eye wash

Do not get in eyes, on skin or on clothing

Wash thoroughly after handling

Biosafety Level 2 precautions

Bromophenol Blue (4-Aminoantipyrine) - Ensure adequate ventilation

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Form:

- The plasma material is in a dried form with Bromophenol Blue; its appearance is a blue pellet.
- The swab material is in a dried form.
- The serum is in liquid form; its normal appearance is a pale amber liquid. pH 6.0-8.0 Neutral.
- Leptospiral broth may be in colourless liquid or solid (if frozen) form.
- All other material is in a colourless liquid form.

SECTION 10: STABILITY & REACTIVITY

- Stability:** This material is stable under normal temperatures and pressures, is non-corrosive and polymerization will not occur.
- Incompatible Materials:** Bromophenol Blue (4-Aminoantipyrine) incompatible with strong acids, acid anhydrides, acid chlorides, oxidizing agent.
- Conditions to avoid:** Avoid excess heat.
- Bromophenol Blue (4-Aminoantipyrine) - incompatible products, dust formation, exposure to light.

SECTION 11: TOXICOLOGICAL INFORMATION

- Potentially Biohazardous Material:** Harmful if ingested or absorbed through skin.
- Bromophenol Blue (4-Aminoantipyrine) - Acute oral toxicity (Category 4). Skin corrosion/irritation (Category 2). Serious eye damage/irritation (Category 2). Specific target organ toxicity (single exposure; respiratory system) (Category 3).

SECTION 12: ECOLOGICAL INFORMATION

Contains no substances known to be hazardous to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste handling requirements are dependent upon local ordinances and therefore it is recommended that the community standards as well as state, local and federal regulations be consulted regarding the proper disposal of potentially infectious material.

SECTION 14: TRANSPORT INFORMATION

IATA/ICAO AIR TRANSPORTATION

- Proper Shipping Name:** Exempt Human Specimen except RESB which requires Biological Substance, Category B
- UN Number:** Exempt for all programs except RESB which requires UN3373
- Hazard Class/Packing Group:** Hazard Class: 6.2 / Packaging Group: N/A
- Labels Required:** In accordance with section 7 IATA Dangerous Goods Regulations (DGR)
- IATA Packaging Requirements:** In accordance with Packing Instructions 650, IATA DGR
- HS Code:** 30029010

SECTION 15: REGULATORY INFORMATION

Not Applicable

SECTION 16: ANY OTHER RELEVANT INFORMATION

The above information is believed to be accurate, complete and current but does not purport to be all inclusive and shall be used as a guide. NRL makes no representation or warranties with respect to the product described herein, including but not limited to any implied warranties or merchantability or fitness for a particular use. NRL assumes no liability or responsibility and authorizes no other person to assume any additional liability or responsibility as a result of the use of this product or the information contained in the Safety Data Sheet.