

a-NAPHTHYLAMINE SOLUTION

PRODUCT CODE 868420

Intended Use

a-Naphthylamine Solution is used for determination of nitrate reduction by bacterial strains along with Sulphanilic acid.

Principle And Interpretation

The a-Naphthylamine solution and Sulphanilic acid is used to determine nitrate reduction by members of Enterobacteriaceae. The reduction of nitrates (NO_3) leads to the formation of nitrites (NO_2) and may progress to the liberation of nitrogen gas. The nitrate reductase producing organisms reduce nitrate to nitrite which reacts with sulphanilic acid to form a diazonium salt. This salt reacts with a-naphthylamine to form a red coloured, water soluble azodye which results in the visualization of pink red colour. A distinct red colour formation within 1-2 minutes indicates reduction of nitrate to nitrite.

PARAMETER

LIMIT

Description	A Reddish brown liquid.
Solubility	Miscible with water.
Suitability test	Passes test

Directions

1. Inoculate growth from an 18 - 24 hours pure culture into Nitrate Broth.
2. Incubate at 35°C for 12 to 24 hours. Very rarely prolonged incubation upto 5 days may be required.
3. Add 0.5 ml alpha -naphthylamine along with 0.5 ml sulphanilic acid.

Note(s) : Assay (if applicable) method mentioned.

DANGER

Hazard statements : Harmful if swallowed. Harmful if inhaled. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. May cause genetic defects. May cause cancer by inhalation. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure by inhalation.. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/ vapours/spray. Avoid breathing dust/fume/gas/mist/ vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/ eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection.

Response: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/ attention. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical advice/attention if you feel unwell. Rinse mouth. If skin irritation or rash occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. Collect spillage.

Disposal: Dissolve the chemical to be disposed, in water and allow it to run to waste, diluting with large quantities of water. The quantities greater than 10g should be dissolved in water and transferred to heavy metal waste drums for collection by specialist disposal company.

IMDG Code : 8/III
UN No. : 2790
IATA : 8

Hazard Pictogram(s) :



GHS07



GHS09

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