



Product Specification

cdhfinechemical.com

SULPHANILIC ACID SOLUTION

894490

PRODUCT CODE Intended Use

Sulphanilic Acid, 0.8% is analytical reagent used along with lpha- Naphthylamine solution for determination of nitrate reduction.

Principle And Interpretation

The α- Naphthylamine solution and Sulphanilic acid is used to determine nitrate reduction by members of Enterobacteriaceae. The reduction of nitrates (NO3) leads to the formation of nitrites (NO₂) 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 α- naphthylamine to form a red coloured, water soluble azo dye 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	Clear, colourless liquid.		
Solubility	Miscible with water.		
Concentration ($NH_2C_6H_4SO_3H$)	About 0.8% w/v		
pH (as such)	About 1.0		
Directions			
1. Inoculate growth from an 18-24 hours pure 2. Incubate at 35°C for 12 to 24 hours. Very r 3. Add 0.5 ml a-naphthylamine along with 0.	culture into Nitrate Broth. rely prolonged incubation upto 5 days may be r ml sulphanilic acid .	equired.	
Note(s) :Assay (if applicable) method n	entioned.		
DANGER HAZARD STATEMENTS :Flammable liquid and harmful if swallowed May be corrosive to me damage.Harmful to aquatic life. PRECAUTIONARY STATEMENTS : Prevention :Keep away from heat/sparks/op Keep only in original container.Ground/bond electrical/ventilating/lighting equipment. Use discharge. Do not breathedust/fume/gas/mis Wash thoroughly after handling. Use onlyout Wearprotective gloves/protective clothing/er Response :IF SWALLOWED: Rinse mouth. Do IF ON SKIN (or hair): Remove/Takeoff immed IFINHALED: Remove to fresh air and keep at r with water for several minutes. Removeconta aPOISON CENTER or doctor/physician. Call a contaminated clothing before reuse.Absorb s Disposal :Add in small quantities to large, stir Neutralize with 5% sodium hydroxide soln. an	vapour. Harmful in contact withskin. Harmful if als.Causes severe skin burns and eye damage. C in flames/hot surfaces. – Nosmoking. Keep cont container and receiving equipment. Use explosion only non-sparking tools. Takeprecautionary me /vapours/spray. Avoid breathingdust/fume/gas oors or in a well-ventilated area. Avoid release e protection/face protection. IOT induce vomiting. IF ONSKIN: Wash with plen tely all contaminated clothing. Rinse skin with vest in a position comfortable forbreathing. IF IN ct lenses, if present and easy to do. Continue rir OISON CENTER ordoctor/physician if you feel un tillage to prevent material damage. ed excess of water, keeping thefinal concentrated drun to waste with large quantities of running v	inhaled. May be Causes serious eye ainer tightly closed. on-proof asures against static /mist/vapours/spray. to the environment. mty of soap and water. water/shower. EYES: Rinse cautiously nsing. Immediately call nwell. Wash ion less than 2%. water.	IMDG Code : UN No. : IATA :

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