

38497 Nitrate Reagent A (1-Naphthylamine Solution)

The alpha-Naphtylamine and Sulphanilic solution is used to detect nitrate reduction by bacteria. Organisms with nitrate reductase reduce nitrate to nitrite which reacts with sulphanilic acid to form a diazonium salt. With alpha-naphtylamine the salt is converted in a red azo dye.

Composition:

alpha-Naphtylamine 5g
Acetic Acid 5N 1000ml

Directions:

Inoculate growth from an 18-24 hours pure culture into Nitrate Broth (72548). Incubate at 35°C for 12 to 24 hours. Very rarely prolonged incubation up to 5 days may be required. Add 0.5 ml alpha-naphtylamine along with 0.5 ml sulphanilic acid to 10 ml of culture.

Test Organisms (ATCC)	Growth	Nitrate Reduction
<i>A. calcoaceticus</i> (19606)	luxuriant	-
<i>E. aerogenes</i> (13048)	luxuriant	+
<i>E. coli</i> (25922)	luxuriant	+
<i>S. serotype Typhimurium</i> (14028)	luxuriant	+

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

