

NITRATE BROTH

A differential medium for the differentiation of bacteria on the basis of nitrate reduction.

Dehydrated media	
Code number:	500 g: NIT20500, 5 kg: NIT25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,2 – 7,6

Direction: Suspend **12 g** in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes fitted with Durham tube and sterilise by autoclaving at 121 °C for 15 minutes.

Prepared media	
Bottled media:	100 ml: NIT30100, 500 ml: NIT30500
Tubed media:	100 x 15 mm: NIT40005 (5 ml)
Colour:	Yellowish
pH (25 °C):	7,3 – 7,5

Direction: Dispense the bottled media aseptically into sterile test tubes fitted with Durham tube. Media in tubes are ready to use.

FORMULA in g/l

Peptones	10
Potassium nitrate	2

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at room temperature. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 24 h
<i>Pseudomonas aeruginosa</i> ATCC 27853		Positive (gas production + positive Griess-Ilosvay test)	
<i>Escherichia coli</i> ATCC 25922		Positive (without gas production + positive Griess-Ilosvay test)	
<i>Enterococcus faecalis</i> ATCC 29212		Negative (without gas production + negative Griess-Ilosvay test)	

References: MacFaddin (1980) Biochemical Tests for the Identification of Medical Bacteria, 2nd ed.

In vitro diagnostic – for professional use only!