

MOTILITY NITRATE (MN) MEDIUM BASE

A semi-solid differential medium for the differentiation of bacteria on the basis of their motility and nitrate reduction.

Dehydrated media	
Code number:	500 g: MON20500, 5 kg: MON25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,2 – 7,6

Direction: Suspend **19 g** in one litre of distilled water. Add **5 ml of Glycerol Supplement (GLC80100)** and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Warning!

If the medium is more than 2 days old at the time of use, boil (for degassing) and cool to room temperature prior to use.

Prepared media	
Bottled media:	100 ml: MON30100, 500 ml: MON30500
Tubed media:	100 x 12 mm: MON40003 (3 ml)
Colour:	Yellowish
pH (25 °C):	7,3 – 7,5

Direction: Dispense the melted bottled media aseptically into sterile test tubes. Media in tubes (after degassing) are ready to use.

FORMULA in g/l

Peptones	14
Potassium nitrate	1
Sodium chloride	1
Agar	3

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	Reactions	
		Motility	Nitrate reduction
<i>Clostridium perfringens</i> ATCC 13124		+	-
<i>Clostridium sporogenes</i> ATCC 11437		-	+

References: Pickett (1980) Nonfermentative Gram-negative bacilli. Scientific Developments Press, Los Angeles.

In vitro diagnostic – for professional use only!