MANNITOL MOTILITY NITRATE (MMN) MEDIUM

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

Dehydrated media	
Code number:	500 g: MMN20500, 5 kg: MMN25000
Colour:	Pinkish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,4 – 7,8

Direction: Suspend **22 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes.

Prepared media	
Bottled media:	100 ml: MMN30100, 500 ml: MMN30500
Tubed media:	100 x 12 mm: MMN40003 (3 ml)
Colour:	Orange red
pH (25 °C):	7,5 – 7,7

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

FORMULA in g/l

Peptones	10,00
Mannitol	7,50
Potassium nitrate	1,00
Phenol red	0,04
Agar	3,50

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**		Incubation time: 24 h
		Mannitol	**Motility**	**Nitrate**
Escherichia coli	ATCC 25922	**+**	**+**	**+**
Klebsiella pneumoniae	ATCC 13883	-	+	+
Proteus mirabilis	ATCC 29906	+	-	+

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

In vitro diagnostic – for professional use only!