DR. MÖLLER & SCHMELZ GmbH

Gesellschaft für angewandte Mikrobiologie



MRS-NPS

Version:	01/2020
M&S item numbers:	1110 (50 / PK) and 1110-H (100 / PK)
Profile:	Dehydrated nutrient pad sets 50 mm in petri dishes, sterile
Color:	Beige
Storage:	Dark and dry at room temperature
Shelf life:	2 years after sterilization

Description and application range

MRS-NPS are used for detection and determination of colony count of lactobacilli in foodstuffs and other samples. The formulation is acc. to De Man, Rogosa and Sharpe. The growth of lactobacilli is known to be supported specifically by magnesium, manganese, acetate and polysorbate. Due to the low selectivity of this medium also non-lactobacilli can develop. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd 1:2018 standard.

Typical composition

Enzymatic digest of casein	10.0 g/l
Meat extract	8.0 g/l
Yeast extract	4.0 g/l
Dextrose	20.0 g/l
Sodium acetate	5.0 g/l
Dipotassiumhydrogenphosphate	2.0 g/l
Diammoniumhydrogencitrate	2.0 g/l
Magnesiumsulfate	0.2 g/l
Manganesesulfate	0.02 g/l
Tween 80	1.0 ml/l
Actidione (Cycloheximide)	0.002 g/l

Final pH: 5.7 ± 0.2 at 25 °C

Microbiological quality control

Bacterial contamination

Incubation: aerobically at room temperature for 3 days, specification: no growth

Productivity quantitative analysis

Incubation: microaerophilic at 30 ± 1 °C for 72 ± 4 h, approx. inoculum: 80 - 120 CFU

Microorganism	Test strain	Specification	Appearance
Lactobacillus sakei	WDCM 00015	P _R ≥ 0,7	Beige
Lactobacillus lactis	WDCM 00016	P _R ≥ 0,7	Beige

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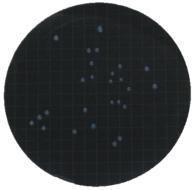


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Selectivity qualitative analysis

Incubation: microaerophilic at 30 ± 2 °C for 72 ± 4 h, approx. inoculum: 10,000 - 1,000,000 CFU

Microorganism	Test strain	Specification	Appearance
Escherichia coli	WDCM 00012	Full inhibition	-



Lactobacillus lactis after 72h at 30°C