



## Orange Serum-NPS pH 5.5

Version: 11/2022  
M&S Item numbers: 1120 (50 / PK) und 1120-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

Orange Serum-NPS are used for the detection and colony count of acidophilic and acidotolerant microorganisms in fruit juices, soft drinks and other beverages. The composition of this medium, i.e. the presence of orange serum, together with the low pH provides optimal growth conditions for acidophilic and acid tolerant microorganisms from beverages containing fruit juices or fruit components. The growth of accompanying microorganisms is inhibited by the very low pH. Incubation under anaerobic or microaerophilic conditions stimulates the growth of more demanding Lactobacilli. The medium is manufactured and quality tested in compliance with ISO 11133:2014 + Amd. 2:2020 standard.

### Typical composition

Enzymatic digest of casein	10.0 g/l
Yeast extract	3.0 g/l
Orange serum extract	5.0 g/l
Dextrose	4.0 g/l
Di-Potassiumphosphate	3.0 g/l

Final pH: 5.5 ± 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: aerobically/microaerophilic at 25 ± 1 °C for 48 ± 3 h, approx. inoculum: 50 – 120 CFU

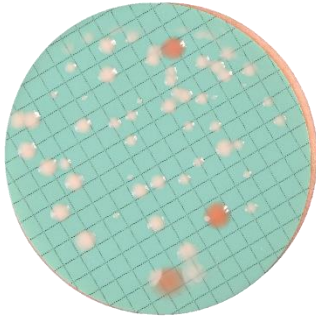
Microorganism	Test strain	Specification	Appearance
<i>Saccharomyces cerevisiae</i>	WDCM 00058	$P_R \geq 0.7$	White colonies
<i>Zygosaccharomyces rouxii</i>	DSM 7525	$P_R \geq 0.7$	Beige colonies
<i>Acetobacter aceti</i>	DSM 2002	Growth	Brownish colonies
<i>Lactobacillus sakei</i>	WDCM 00015	Growth	White colonies

$P_R$  productivity rate (recovery rate)



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Mixed culture of *Saccharomyces cerevisiae*, *Zygosaccharomyces rouxii*,  
*Brettanomyces bruxellensis* and *Rhodotorula mucilaginosa* after 3 days at  
30 °C