

# Liofilchem®

## Certificate of Analysis

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Product	Batch	Expiration date
<b>MRS Agar</b> Ref. 610024 – 620024	101719502	2023.10.13

Physical quality control	Specification	Results
Expected pH-value (25°C)	5.7 ± 0.1	5.7
Appearance of powder	Free-flowing, homogeneous	Conforms
Colour of powder	Beige	Conforms
Appearance of prepared medium	Slightly opalescent	Conforms
Colour of prepared medium	Amber	Conforms

### Microbiological Performance

Tested according to CLSI M22-A3, EN ISO 11133  
Reference media: MRS Agar already validated batch

### Productivity, Method of control: Quantitative

Inoculum: 50-100 CFU

Control strains	Incubation	Expected Results	Specification	Results
<i>Lactobacillus sakei</i> WDCM 00015	Microaerobic 72 ± 3 h 30 ± 1°C	$P_R \geq 0.7$	Good growth	Conforms
<i>Lactobacillus lactis</i> WDCM 00016	Microaerobic 72 ± 3 h 30 ± 1°C	$P_R \geq 0.7$	Good growth	Conforms

### Selectivity, Method of control: Qualitative

Inoculum: 10<sup>4</sup>-10<sup>6</sup> CFU

Control strains	Incubation	Specification	Results
<i>Escherichia coli</i> WDCM 00012	Microaerobic 72 ± 3 h 30 ± 1°C	Inhibition	Conforms
<i>Bacillus cereus</i> WDCM 00001	Microaerobic 72 ± 3 h 30 ± 1°C	Inhibition	Conforms

### Batch Release

Approved

Date

22.10.2019

Signature

Quality Control  
(D. Vitagliano)

*Dario Vitagliano*

The results reported were obtained at the time of release.