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<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>LYSINE MEDIUM CM0191</b>		

**LYSINE MEDIUM**

**CM0191**

**Typical Formula\***

grams per litre


Glucose	44.5
Potassium dihydrogen phosphate	1.78
Magnesium sulphate	0.89
Calcium chloride fused	0.178
Sodium chloride	0.089
Adenine	0.00178
DL-Methionine	0.000891
L-Histidine	0.000891
DL-Tryptophan	0.000891
Boric acid	0.0000089
Zinc sulphate	0.0000356
Ammonium molybdate	0.0000178
Manganese (II) sulphate	0.0000356
Iron (II) sulphate	0.0002225
L-Lysine	1.0
Inositol	0.02
Calcium pantothenate	0.002
Thiamine hydrochloride	0.0004
Pyridoxine hydrochloride	0.0004
p-Aminobenzoic acid	0.0002
Nicotinic acid	0.0004
Riboflavin	0.0002
Biotin	0.000002
Folic acid	0.000001
Agar	17.8

\* adjusted as required to meet performance standards

**Directions**

Suspend 6.6g in 100ml distilled water. Add 1ml Potassium Lactate 50% (SR0037). With frequent agitation, bring to the boil to dissolve completely. Cool to 50°C and aseptically add the appropriate amount\*\* of Lactic Acid 10% (SR0021) to adjust to pH 4.8 ± 0.2. Mix well and pour into sterile Petri dishes. DO NOT AUTOCLAVE. DO NOT OVERHEAT.

\*\* This figure varies - see CM0191 label

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### Physical Characteristics

White, free-flowing powder  
 Colour on reconstitution - off white  
 Moisture level - less than or equal to 7%  
 pH -  $5.0 \pm 0.2$  at 25°C  
 pH -  $4.8 \pm 0.2$  at 25°C (after adjustment)  
 Clarity - clear  
 Gel strength - firm, comparable to 17.8g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Sabouraud Dextrose Agar

Tested using acidified medium


### Reactions after aerobic incubation at 25°C for 4 days

Medium is challenged with  $1E+04$  to  $1E+06$  colony-forming units

<i>Saccharomyces (carlsbergensis) uvarum</i>	ATCC®2700	Inhibited as slight, background film
<i>Saccharomyces cerevisiae</i>	ATCC®9763	Inhibited as slight, background film
<i>Pichia fermentans</i>	ATCC®10651	White colonies
<i>Candida vini</i>	NCYC331	White colonies

Washed, pure and mixed cultures of the listed organisms are inoculated on to the surface of the medium.

Growth of *Pichia fermentans* and *Candida vini* shall be comparable to the standard medium after incubation at 25°C for 4 days.

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### Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire Document	Update to new document format and correction of typographical/minor errors. Addition of Control Medium and Result Criteria.	Change control	BT-CC-1931
Physical Characteristics	Addition of pH - 5.0 ± 0.2.	Change control	BT-CC-1931