

Distribution: Central File

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## OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION

**LACTOSE BROTH****CM0137****Typical Formula\***

'Lab-Lemco' powder	grams per litre	3.0
Peptone		5.0
Lactose		5.0

\* adjusted as required to meet performance standards

**Directions**

Dissolve 13g in 1 litre of distilled water. Mix well and distribute into final containers with Durham tubes. Sterilize by autoclaving at 121°C for 15 minutes.

**Physical Characteristics**

Straw, free-flowing powder  
 Colour on reconstitution - straw 1-2  
 Moisture level - less than 7%  
 pH  $6.9 \pm 0.2$  at 25°C  
 Clarity - clear

**Microbiological Tests Using Optimum Inoculum Dilution**

Control Medium: Tryptone Soya Agar

Medium is challenged with 10-100 colony-forming units

**Reactions after incubation at 37°C for 24 hours**

<i>Escherichia coli</i>	ATCC® 8739	Turbid growth, acid and gas
<i>Enterobacter aerogenes</i>	NCTC 9735	Turbid growth, with or without gas

Check for gas at 24 hours, if no gas is visible continue incubation for 48 hours.

**Reactions after incubation at 37°C for 48 hours**

<i>Escherichia coli</i>	ATCC® 8739	Turbid growth, acid and gas
<i>Enterobacter aerogenes</i>	NCTC 9735	Turbid growth, acid and gas
<i>Enterococcus faecalis</i>	ATCC® 19433	Turbid growth, acid and no gas
<i>Staphylococcus aureus</i>	ATCC® 6538	Turbid growth, acid and no gas
<i>Pseudomonas aeruginosa</i>	ATCC® 9027	Turbid growth, no reaction
<i>Salmonella abony</i>	NCTC 6017	Turbid growth, no reaction
<i>Salmonella nottingham</i>	NCTC 7832	Turbid growth, no reaction

A satisfactory result is represented by visible growth.

Acid production is detected by the addition of a few drops of bromocresol purple. A positive reaction is indicated by a colour change from purple to yellow.