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OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION		
AEROMONAS MEDIUM BASE (RYAN) CM0833		

## AEROMONAS MEDIUM BASE (RYAN)

CM0833

### Typical Formula\*

Proteose peptone	grams per litre	5.0
Yeast extract		3.0
L-Lysine		3.5
L-Arginine		2.0
Inositol		2.5
Lactose		1.5
Sorbitol		3.0
Xylose		3.75
Bile salts No.3		3.0
Sodium thiosulphate		10.67
Sodium chloride		5.0
Ammonium iron (III) citrate		0.8
Bromothymol blue		0.04
Thymol blue		0.04
Agar		12.5

\* adjusted as required to meet performance standards

### Directions

Suspend 29.5g in 500ml of distilled water. With frequent agitation, bring to the boil to dissolve completely. Cool to 50°C and aseptically add the contents of 1 vial of Ampicillin Selective Supplement (SR0136E) reconstituted as directed. Mix well and pour into sterile Petri dishes. DO NOT AUTOCLAVE.

### Physical Characteristics

Straw, straw/yellow or straw/green, free-flowing powder  
 Colour on reconstitution - Green  
 Moisture level - less than or equal to 7%  
 pH - 8.0 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - firm, comparable to 12.5g/litre of agar

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### Microbiological Tests Using Optimum Inoculum Dilution

Tested with the addition of Ampicillin Selective Supplement SR0136

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

Medium is challenged with 10-100 colony-forming units

<i>Aeromonas hydrophila</i>	ATCC®7966	1-2mm green, opaque colonies, dark centre
<i>Aeromonas hydrophila</i>	ATCC®9071	1-2mm green, opaque colonies, dark centre
<i>Aeromonas caviae</i>	ATCC®13137	1-2mm green, opaque colonies, dark centre
<i>Aeromonas sobria</i>	NCTC11215	1-2mm green, opaque colonies, dark centre
<i>Pseudomonas aeruginosa</i>	ATCC®27853	Pinpoint-0.25mm blue/grey translucent colonies
<i>Pseudomonas putida</i>	NCIMB9034	No growth or pinpoint-0.5mm green colonies
<i>Escherichia coli</i>	ATCC®11775	No growth or 0.5-2mm green colonies


A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium. *Pseudomonas putida* NCIMB9034 is inhibited or shall produce growth no greater than 110% of the control medium. *Escherichia coli* ATCC®11775 is inhibited or shall produce at least a 1 log(10) reduction when compared to the control medium.

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

<i>Pseudomonas fluorescens</i>	NCTC3756	No growth
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Negative strains are inhibited.

Additional challenging strains are employed.

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## Revision History

Section / Step	Description of Change	Reason for Change	Reference
Entire document	Update to new template and change to pH specification	Change control	BT-CC-1489
Entire Document	Correction of typographical/minor errors.	Change control	BT-CC-1924