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<b>OXOID QUALITY ASSURANCE PRODUCT SPECIFICATION</b>		
<b>YERSINIA SELECTIVE AGAR BASE (CM0653)</b>		

## YERSINIA SELECTIVE AGAR BASE

CM0653

### Typical Formula\*

	grams per litre	
Special peptone		20.0
Yeast extract		2.0
Mannitol		20.0
Sodium pyruvate		2.0
Sodium chloride		1.0
Magnesium sulphate		0.01
Sodium deoxycholate		0.5
Neutral red		0.03
Crystal violet		0.001
Agar		12.5

\* adjusted as required to meet performance standards

### Directions


Suspend 29g in 500ml of distilled water. Bring to the boil to dissolve completely. Sterilize by autoclaving at 121°C for 15 minutes. Cool to 50°C and aseptically add the contents of 1 vial of Yersinia Selective Supplement (SR0109E) reconstituted as directed. Mix well and pour into sterile Petri dishes.

### Physical Characteristics

Straw, free-flowing powder  
 Colour on reconstitution - red  
 Moisture level - less than 7%  
 pH 7.4 ± 0.2 at 25°C  
 Clarity - clear  
 Gel strength - firm, comparable to 12.5g/litre of agar

### Microbiological Tests Using Optimum Inoculum Dilution

Control Medium: Tryptone Soya Agar

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**Reactions after incubation at 30 ± 2°C for 21 ± 3 hours**

Tested with the addition of Yersinia Selective Supplement SR0109

Medium is challenged with 10-100 colony-forming units

<i>Yersinia enterocolitica</i>	ATCC® 27729	0.5-2mm transparent, red, bull's-eye colonies
<i>Yersinia enterocolitica</i>	NCTC 10460	0.5-2mm transparent, red, bull's-eye colonies

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

Medium is challenged with 10-100 colony-forming units


<i>Citrobacter freundii</i>	ATCC® 8090	1-3mm pink colonies, with or without opaque zones
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For *Citrobacter freundii* ATCC® 8090, a satisfactory result is represented by recovery of positive strains equal to or greater than 50% of the control medium.

Medium is challenged with 1E+04 to 1E+05 colony-forming units

<i>Proteus mirabilis</i>	ATCC® 29906	No growth or 1-2mm straw colonies
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*Proteus mirabilis* ATCC® 29906 is inhibited or shall produce at least a 1 log(10) reduction when compared to the control medium.

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**Testing performed in accordance with ISO11133:2014**

**Reactions after incubation at 30 ± 2°C for 21 ± 3 hours**

Medium is challenged with 50-120 colony forming units

<i>Yersinia enterocolitica</i>	ATCC® 23715 WDCM00160	0.5-2mm transparent, red, bull's-eye colonies
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A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium.

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

<i>Escherichia coli</i>	ATCC® 25922 WDCM00013	No growth
<i>Escherichia coli</i>	ATCC® 8739 WDCM00012	No growth
<i>Staphylococcus aureus</i>	ATCC® 25923 WDCM00034	No growth

Negative strains are inhibited.

**Tested in accordance with current CLSI M22 A**

**Reactions after incubation at 30 ± 2°C for 21 ± 3 hours**

Medium is challenged with 1E+03 to 1E+04 colony-forming units

<i>Yersinia enterocolitica</i>	ATCC® 9610	0.5-2mm transparent, red, bull's-eye colonies
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For *Yersinia enterocolitica* ATCC®9610, a satisfactory result is represented by a positive diagnostic reaction.

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

<i>Pseudomonas aeruginosa</i>	ATCC® 27853	No growth
<i>Enterococcus faecalis</i>	ATCC® 29212	No growth
<i>Escherichia coli</i>	ATCC® 25922	No growth

Negative strains are inhibited.

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### Revision History

Section / Step	Description of Change	Reason for Change	Reference
Creation of CLSI section	Update to include testing of CLSI	Change control	BT-CC-1486