



# Food Safety

ISO standard guide for Bio-Rad media in Food Testing

**BIO-RAD**



# Food Safety

ISO standard guide for Bio-Rad media in Food Testing

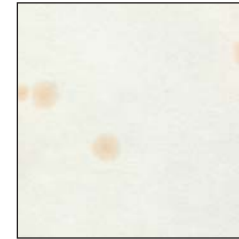
## Contents

### PART 1 - ROUTINE TESTING

Preparation of dilutions	3
Total flora	3
<i>Escherichia coli</i>	4-5
Coliforms	6-7
<i>Enterobacteriaceae</i>	8-9
Mesophilic lactic acid bacteria	10
Yeasts and Molds	11

### PART 2 - PATHOGEN TESTING

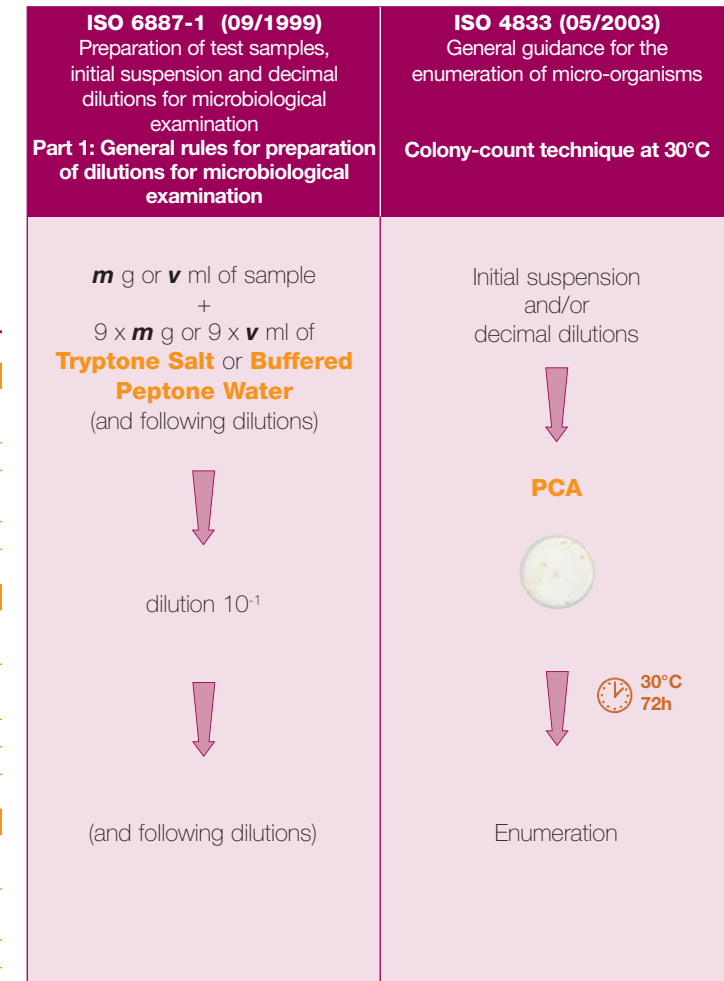
<i>Salmonella</i> in Food - ISO standards	12
<i>Salmonella</i> in Animal Feed	13
<i>Listeria monocytogenes</i> in Food - ISO standards	14-15
<i>Listeria monocytogenes</i> in Food - Alternative Method RAPID'L.Mono	16-17
<i>Staphylococcus aureus</i>	18-19
Sulfite-reducing bacteria, <i>Clostridium perfringens</i>	20
<i>Bacillus cereus</i>	21
Thermotolerant <i>Campylobacter</i>	22
<i>Shigella</i>	23

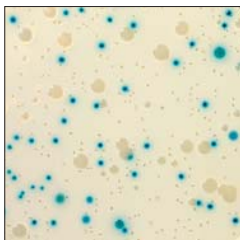


### Ordering Information

Catalog #	Description
<b>PCA (Plate Count Agar)</b>	
<b>Dehydrated</b>	
356-4475	500 g
356-4478	5 kg
<b>Ready to use</b>	
355-4459	100 ml x 6 vials
355-4457	200 ml x 6 vials
356-3989	90 mm x 20 Petri dishes
<b>Tryptone Salt/Broth</b>	
<b>Dehydrated</b>	
356-4544	500 g
<b>Ready to use</b>	
<b>New!</b> 355-5748	9 ml x 40 flip tubes
355-5754	9 ml x 25 tubes
355-5756	90 ml x 6 vials
<b>New!</b> 355-5791	2.3 l x 5 bags
<b>Buffered Peptone Water/Broth</b>	
<b>Dehydrated</b>	
356-4684	500 g
<b>Ready to use</b>	
355-4179	225 ml x 6 vials
<b>New!</b> 355-5789	2.3 l x 5 bags
<b>New!</b> 355-5790	5 l x 2 bags

### Preparation of dilutions Total flora



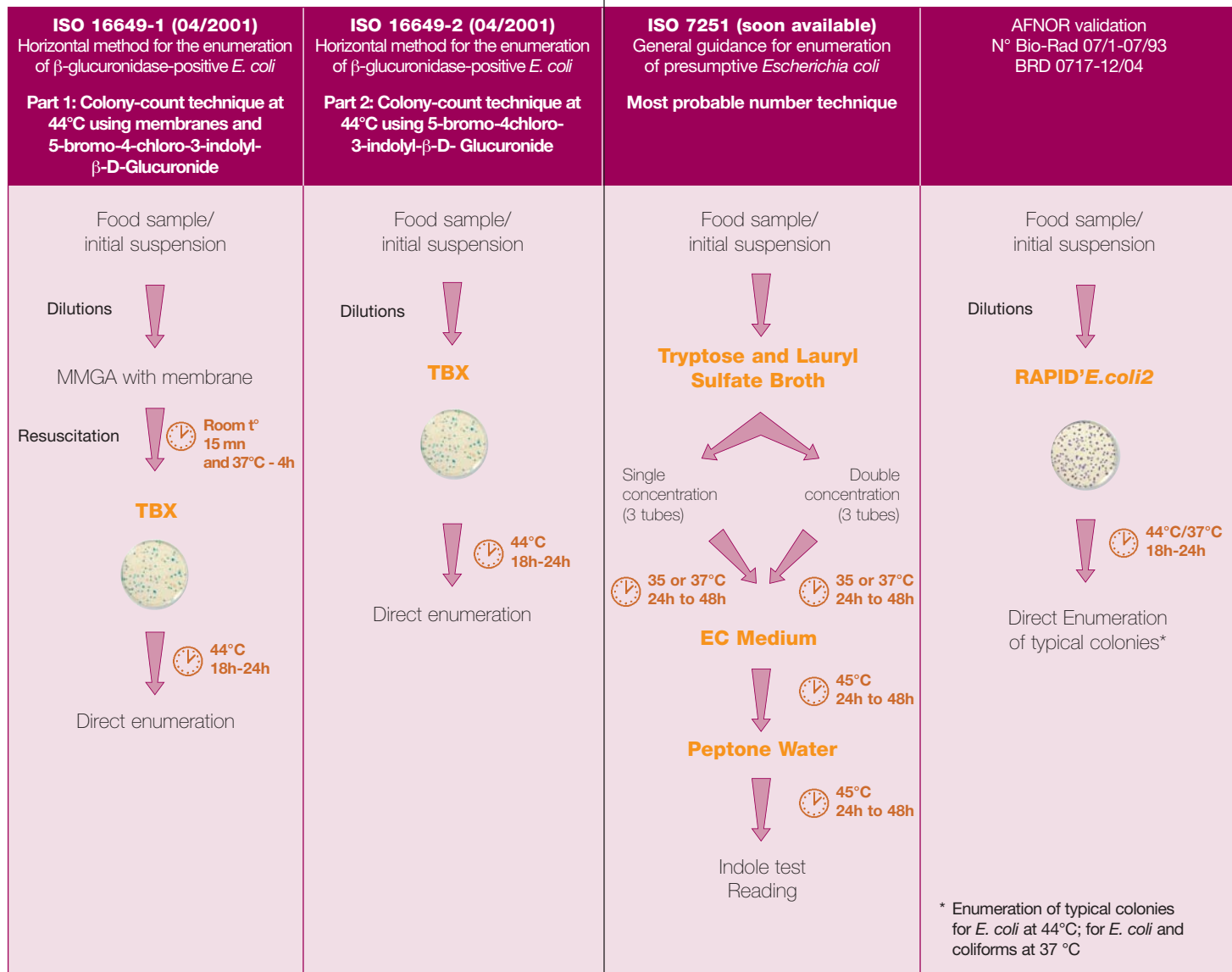


### Escherichia coli

### Escherichia coli Alternative method: RAPID'E.Coli2

#### Ordering Information

Catalog #	Description
<b>TBX/Agar</b>	
Dehydrated 356-4035	500 g
Ready to use 355-5309	100 ml x 6 vials
<b>RAPID'E.coli2/Agar</b>	
Dehydrated 356-4024	500 g
Ready to use 355-5299	100 ml x 6 vials
<b>Peptone Water/Broth</b>	
Dehydrated 356-4334	500 g
Ready to use 355-4180	9 ml x 25 tubes
<b>Tryptose and Lauryl sulfate</b>	
Dehydrated 356-4774	500 g
<b>EC medium/Broth</b>	
Dehydrated 356-4764	500 g



\* Enumeration of typical colonies for *E. coli* at 44°C; for *E. coli* and coliforms at 37 °C





### Ordering Information

**Catalog #**      **Description**



**BGBLB (Brilliant Green Bile Lactose Broth)** Single concentration

**Dehydrated**  
356-4054      500 g

**Ready to use**  
357-8024      10 ml x 25 tubes



**VRBL/Agar (Violet Red Bile Lactose)**

**Dehydrated**  
356-4594      500 g

**Ready to use**  
355-4799      100 ml x 6 vials

**Tryptose and Lauryl Sulfate**

**Dehydrated**  
356-4774      500 g



**RAPID'E.coli2/Agar**

**Dehydrated**  
356-4024      500 g

**Ready to use**  
355-5299      100 ml x 6 vials

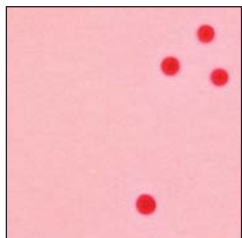
## Coliforms

<p><b>ISO 4831 (soon available)</b></p> <p>General guidance for the enumeration of coliforms</p> <p><b>MPN technique</b></p>	<p><b>ISO 4832 (soon available)</b></p> <p>General guidance for the enumeration of coliforms</p> <p><b>Colony-count technique</b></p>	<p>AFNOR validation N° Bio-Rad 07/1-07/93 BRD 0718-12/04</p>
<p>Food sample</p> <p>Dilutions ↓</p> <p><b>Tryptose and Lauryl Sulfate Broth</b></p> <p>Single concentration (3 tubes)      Double concentration (3 tubes)</p> <p>⌚ 35°C or 37°C 24h to 48h      ⌚ 35°C or 37°C 24h</p> <p>↓ ↓</p> <p><b>BGBLB</b></p> <p>⌚ 30-37°C 24h (+24h)</p> <p>Reading (gas +)</p>	<p>Food sample/ initial suspension</p> <p>Dilutions ↓</p> <p><b>VRBL</b></p> <p>⌚ 30-35-37°C 24h</p> <p>Enumeration of characteristic colonies</p> <p><b>Coliforms</b></p> <ul style="list-style-type: none"> <li>• Diameter ≥ 0.5 mm</li> <li>• Purple with or without a red zone of precipitated bile</li> </ul>	<p>Food sample/ initial suspension</p> <p>Dilutions ↓</p> <p><b>RAPID'E.coli2</b></p> <p>⌚ 37°C 18h-24h</p> <p>Direct Enumeration of typical colonies*</p> <p>* Enumeration of typical colonies for <i>E. coli</i> at 44°C; for <i>E. coli</i> and coliforms at 37 °C</p>





## Enterobacteriaceae



### Ordering Information

Catalog # Description

**EE/Broth**

Dehydrated  
356-4794 500 g

New!

**VRBG/Agar**  
(Violet Red Bile Lactose)

Dehydrated  
356-4584 500 g

Ready to use  
355-4239 100 ml x 6 vials

**Nutrient (2.1%)/Agar**

Dehydrated  
356-4485 500 g

**Oxydase/disk**

355-3832 30 disks

**Buffered Peptone Water**

Dehydrated  
356-4684 500 g

Ready to use  
355-4179 225 ml x 6 vials

New! 355-5789 2.3 l x 5 bags

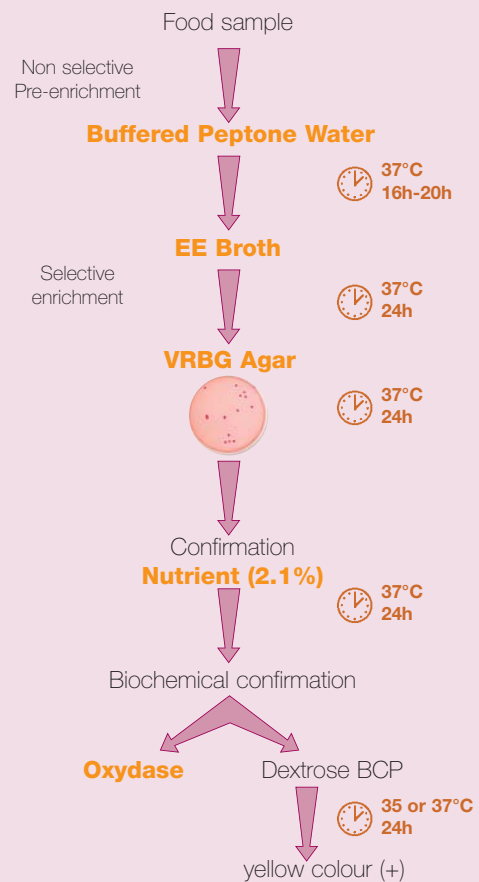
New!

355-5790 5 l x 2 bags

### ISO 21528-1 (08/2004)

Microbiology of food and animal feeding stuffs  
– Horizontal methods for the detection  
and enumeration of *Enterobacteriaceae*

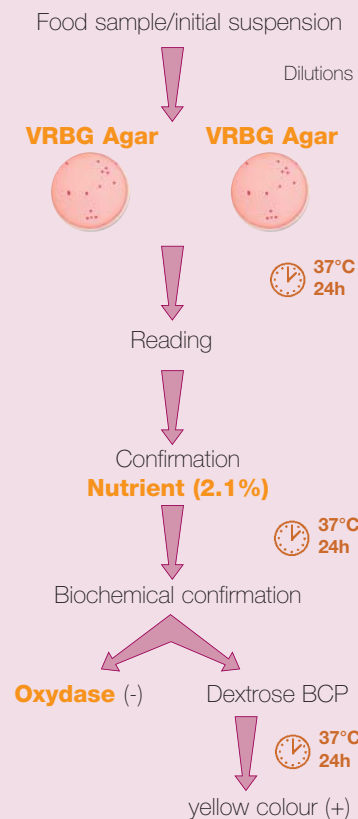
#### Part 1: Detection and enumeration by MPN technique with pre-enrichment



### ISO 21528-2 (08/2004)

Microbiology of food and animal feeding stuffs  
– Horizontal methods for the detection  
and enumeration of *Enterobacteriaceae*

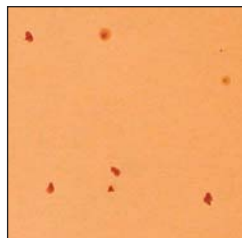
#### Part 2: Colony count technique





### Mesophilic Lactic Acid Bacteria

### Yeasts and Molds



#### Ordering Information

Catalog #	Description
<b>MRS/Agar</b> (Man, Rogosa and Sharp)	
<b>Dehydrated</b> 356-4244	500 g

#### Ordering Information

Catalog #	Description
<b>YGC/Agar</b> (Yeast Glucose Chloramphenicol)	
<b>Dehydrated</b> 356-4104	500 g
<b>Ready to use</b> 355-4239	100 ml x 6 vials



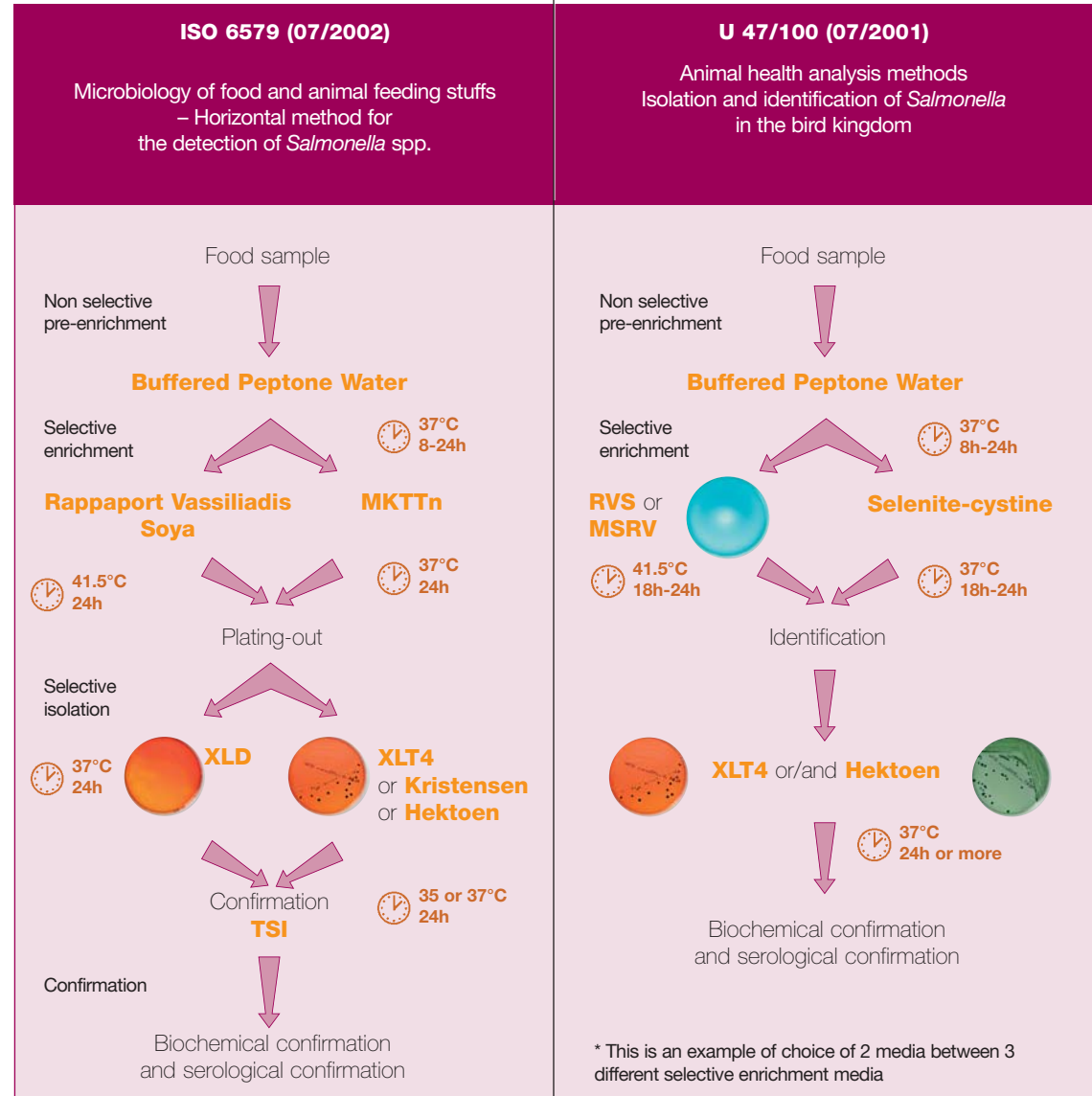


### Ordering Information

Catalog #	Description
<b>Buffered Peptone Water</b>	
<b>Dehydrated</b>	
356-4684	500 g
<b>Ready to use</b>	
355-4179	225 ml x 6 vials
355-5789	2.3 l x 5 bags
355-5790	5 l x 2 bags
<b>RVS (Rappaport Vassiliadis Soy)/Broth</b>	
<b>Dehydrated</b>	
356-4324	500 g
<b>Ready to use</b>	
355-5773	10 ml x 25 tubes
<b>MKTTn/Broth</b>	
<b>Dehydrated</b>	
356-4714	500 g
<b>Ready to use</b>	
355-6140	10 ml x 50 tubes
<b>Novobiocin supplement</b>	
356-4610	1 vial
<b>TSI Triple Sugar Iron</b>	
<b>Dehydrated</b>	
356-4384	500 g
<b>Nutrient (2.1%)/Agar</b>	
<b>Dehydrated</b>	
356-4485	500 g
<b>XLD (Xylose Lysine Deoxycholate)/Agar</b>	
<b>Dehydrated</b>	
356-9124	500 g
<b>Ready to use</b>	
354-1751	90 mm x 20 dishes

New!  
New!

### Salmonella in food - ISO standards



### Ordering Information

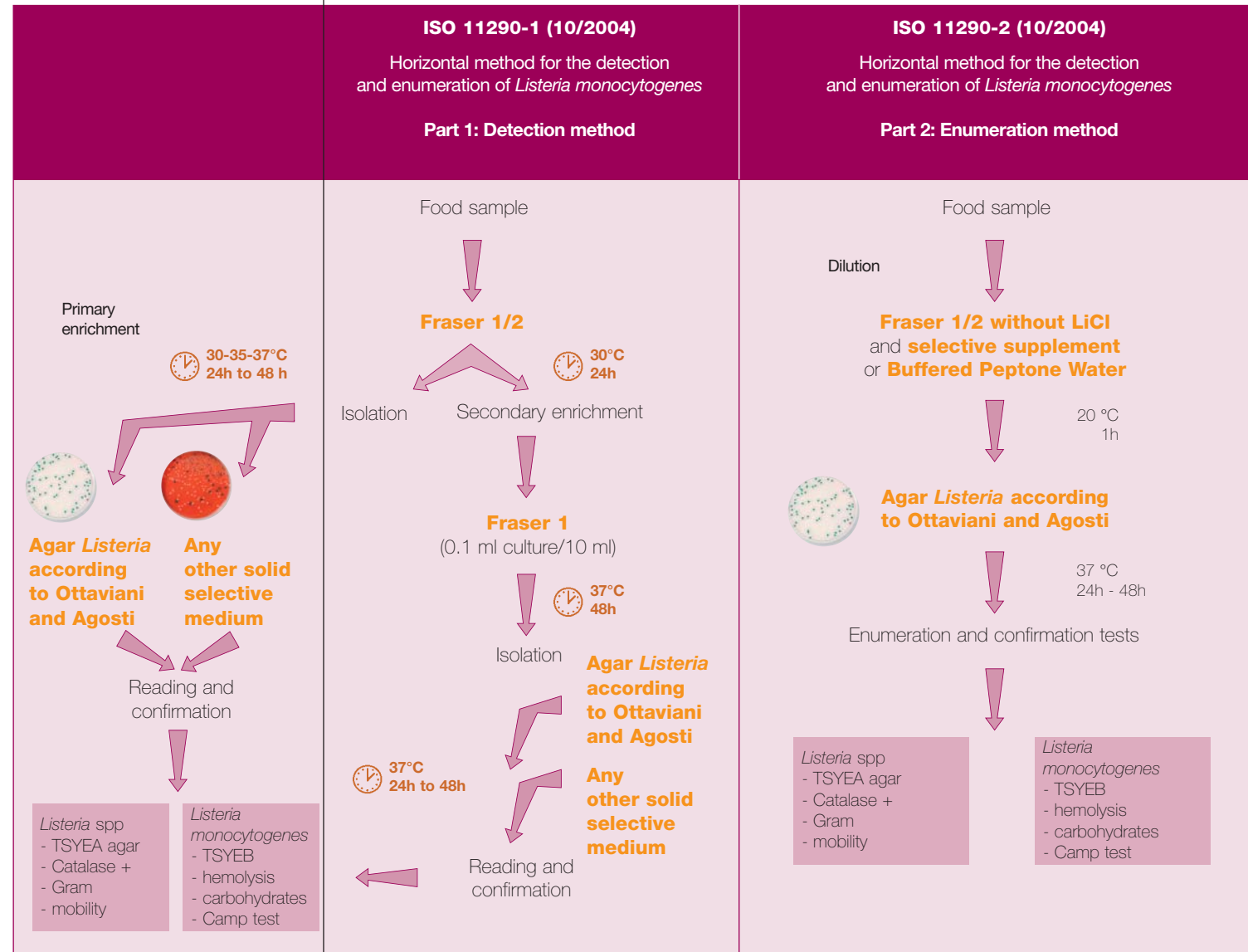
Catalog #	Description
<b>Selenite-cystine/Broth</b>	
<b>Base</b>	
356-4074	500 g
<b>Complete medium</b>	
355-4709	100 ml x 6 vials
355-5744	20 ml x 25 tubes
<b>Sodium biselenite</b>	
356-4075	100 g
<b>MSRV/Broth</b>	
<b>Dehydrated</b>	
356-4325	500 g
<b>Ready to use</b>	
355-6139	200 ml x 6 vials
<b>XLT4 (Xylose Lysine Tergitol 4)/Agar</b>	
<b>Ready to use</b>	
356-3654	90 mm x 20 dishes
<b>Brilliant Green (Kristensen)/Agar</b>	
<b>Dehydrated</b>	
356-4464	500 g
<b>Hektoen/Agar</b>	
<b>Dehydrated</b>	
356-4284	500 g
<b>Ready to use</b>	
355-4386	100 ml x 6 vials
356-3894	90 mm x 20 dishes



### Ordering Information

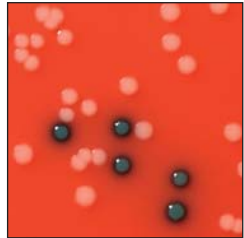
Catalog #	Description
<b>Buffered Peptone Water</b>	
<b>Dehydrated</b>	
356-4684	500 g
<b>Ready to use</b>	
355-4179	225 ml x 6 vials
355-5789	2.3 l x 5 bags
355-5790	5 l x 2 bags
<b>Fraser 1/2/Broth</b>	
<b>Base</b>	
356-4604	500 g
<b>Supplement</b>	
356-4616	10 vials
<b>Complete medium</b>	
355-5797	225 ml x 6 vials
355-5788	2.3 l x 5 bags
355-5792	5 l x 2 bags
<b>Fraser 1/Broth</b>	
<b>Base</b>	
356-4604	500 g
<b>Supplement</b>	
356-4615	10 vials
<b>Complete medium</b>	
355-4569	10 ml x 25 tubes
<b>RAPID<sup>®</sup>L.mono/Agar</b>	
<b>Ready to use</b>	
356-3694	90 mm x 20 dishes
355-5294	190 ml + suppl.
<b>A.L. Agar <i>Listeria</i> according to Ottaviani and Agosti</b>	
<b>Base</b>	
356-4038	500 g
<b>Ready to use</b>	
356-3695	90 ml x 20 dishes
<b>Palcam/Agar</b>	
<b>Base</b>	
356-4754	500 g
<b>Supplement</b>	
356-4752	10 vials
<b>Complete medium</b>	
356-3674	90 mm x 20 dishes
<b>Oxford/Agar</b>	
<b>Base</b>	
356-4624	500 g
<b>Supplement</b>	
356-4626	10 vials
<b>Complete medium</b>	
356-3664	90 mm x 20 dishes

### *Listeria monocytogenes* in Food - ISO standards





## Listeria monocytogenes in Food - Alternative method: RAPID'L.mono



### Ordering Information

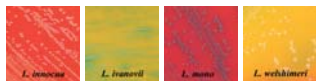
Catalog #	Description
<b>Buffered Peptone Water</b>	
<b>Dehydrated</b>	
356-4684	500 g
<b>Ready to use</b>	
355-4179	225 ml x 6 vials
355-5789	2.3 l x 5 bags
355-5790	5 l x 2 bags
<b>Fraser 1/2/Broth</b>	
<b>Supplement</b>	
356-4616	10 vials
<b>Complete medium</b>	
355-5797	225 ml x 6 vials
355-5788	2.3 l x 5 bags
355-5792	5 l x 2 bags
<b>RAPID'L.mono/Agar</b>	
<b>Ready to use</b>	
356-3694	90 mm x 20 dishes
355-5294	190 ml + suppl.
<b>A.L. Agar Listeria according to Ottaviani and Agosti</b>	
<b>Base</b>	
356-4038	500 g
<b>Ready to use</b>	
356-3695	90 ml x 20 dishes

New!

New!

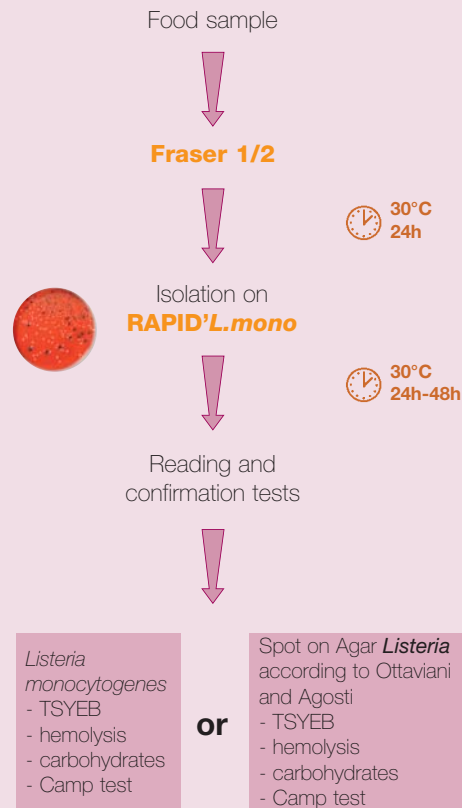


Soon available



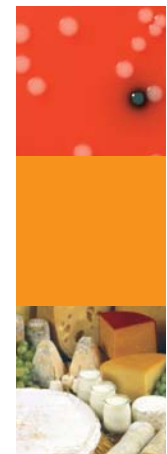
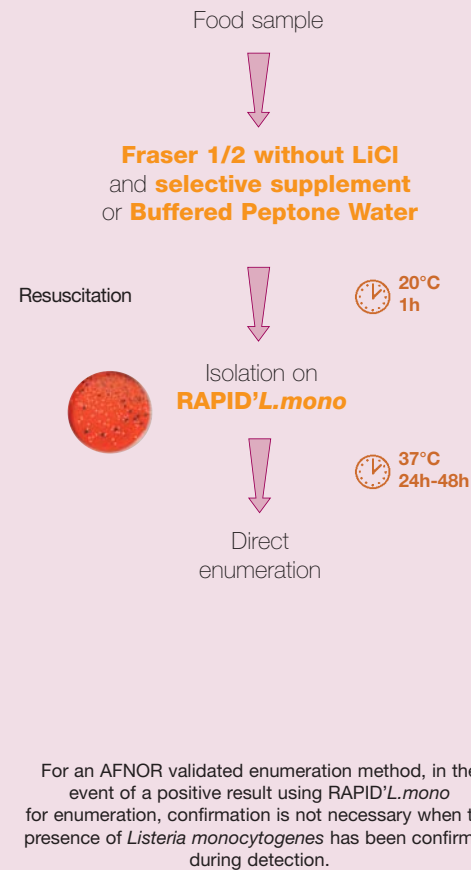
AFNOR approved  
N° Bio-Rad 07/04 - 09/98  
AOAC-RI approved N° 030406  
All foodstuffs and environment

**Detection of *Listeria monocytogenes***






AFNOR approved  
Dairy, beef and sea products  
N° Bio-Rad 07/5 - 09/01

**Enumeration of *Listeria monocytogenes***

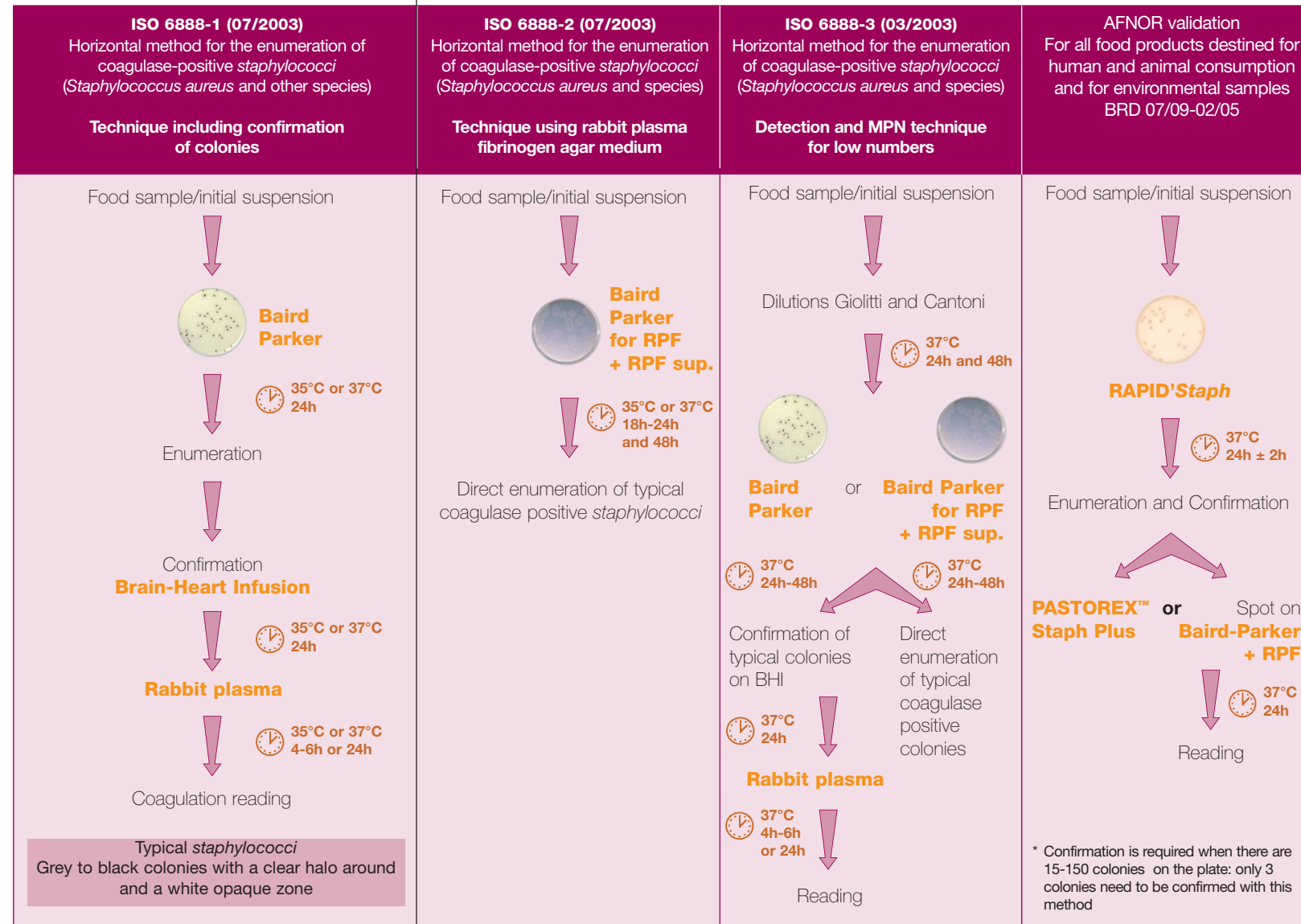




## Ordering Information

Catalog #	Description
	<b>Baird Parker/Agar</b>
Ready to use (not supplemented) 357-8616	90 ml x 6 bottles
Dehydrated base (supplemented) 356-4814	500 g
Complete medium 356-3991	90 mm x 20 dishes
	<b>Baird Parker for RPF</b>
Dehydrated base 356-4814	500 g
Complete 357-8618	90 ml x 6 bottles + 6 vials of suppl.
356-3996	90 mm x 20 dishes
RPF Supplement 356-4618	10 vials
<b>Brain-Heart Infusion (BHI)/Broth</b>	
Dehydrated 356-4014	500 g
Ready to use 355-3664	10 ml x 25 tubes
<b>Brain-Heart/Agar</b>	
Dehydrated 356-4174	500 g
<b>Rabbit Plasma</b>	
Freeze-dried 355-6352	Package for 20 reactions
Special broth 355-3544	9 ml x 25 tubes
	<b>RAPID'Staph</b>
Dehydrated base 356-4704	500 g
<b>New!</b> Ready to use 356-3960	90 mm x 20 dishes
<b>New!</b> Additives	
Sodium pyruvate solution (20%) 356-2535	5 ml x 1 vial
L-Glycine solution (20%) 356-2456	6 ml x 1 vial
Egg yolk with potassium tellurite 355-4201	5 ml x 1 vial
355-4205	25 ml x 1 bottle
Sulphamethazine solution (0.2%) 356-2682	2.5 ml x 1 vial
<b>PASTOREX™ Staph Plus</b> 355-6356	50 tests
355-6353	50 tests x 5

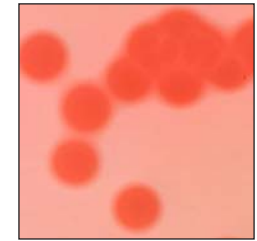
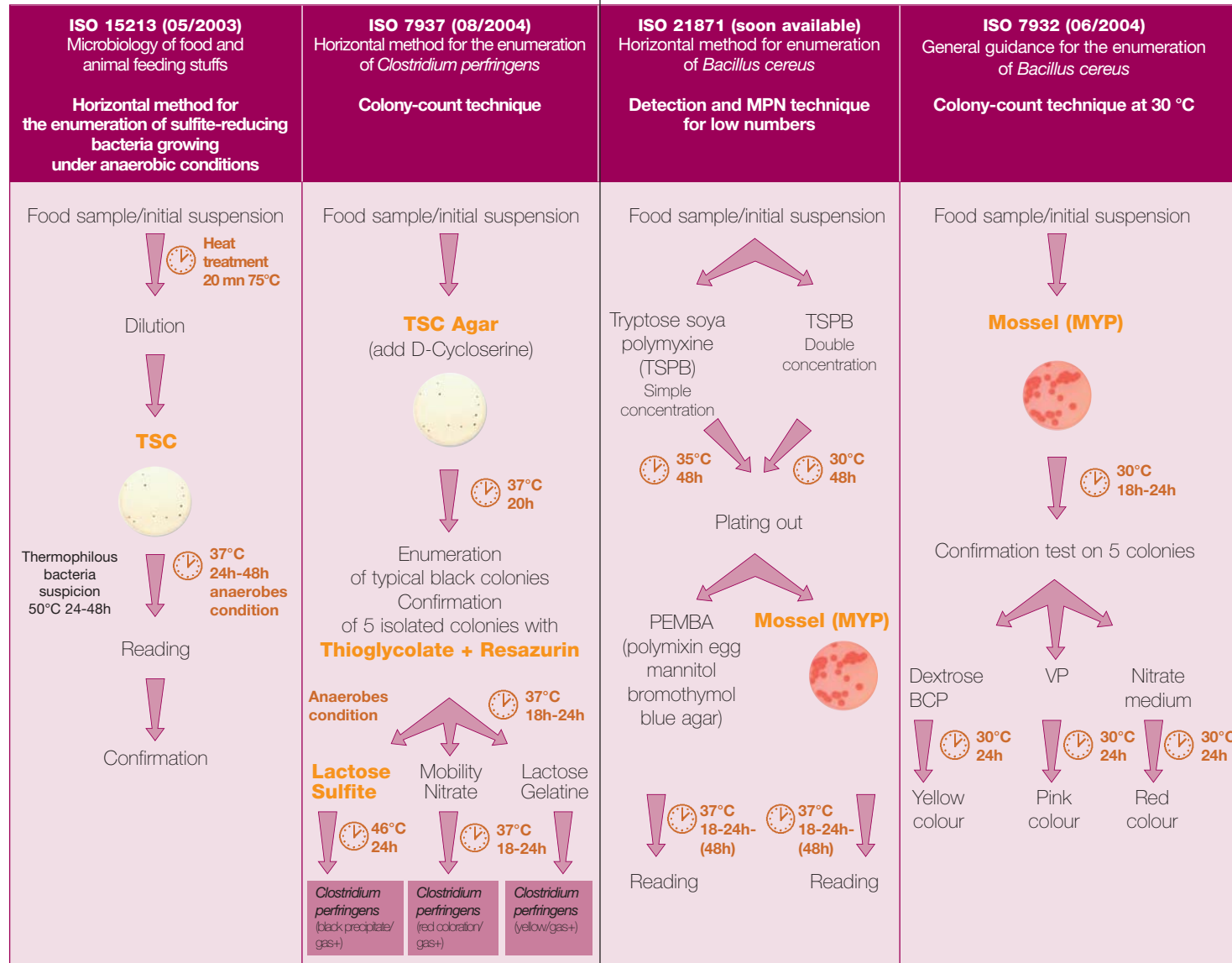
## Staphylococcus aureus





**Sulfite-reducing bacteria *Clostridium perfringens***

***Bacillus cereus***



**Ordering Information**

Catalog #	Description
<b>TSC (Tryptose Sulfite Cycloserin)/ Agar (without D-Cycloserin)</b>	
Dehydrated	
356-9644	500 g
<b>Ready to use</b>	
355-4419	100 ml x 6 vials
<b>Lactose Sulfite/Broth</b>	
Base	
356-4914	100 g
<b>Thioglycolate + Resazurin/Broth</b>	
Dehydrated	
356-4084	500 g
<b>Ready to use</b>	
356-3613	10 ml x 25 tubes

**Ordering Information**

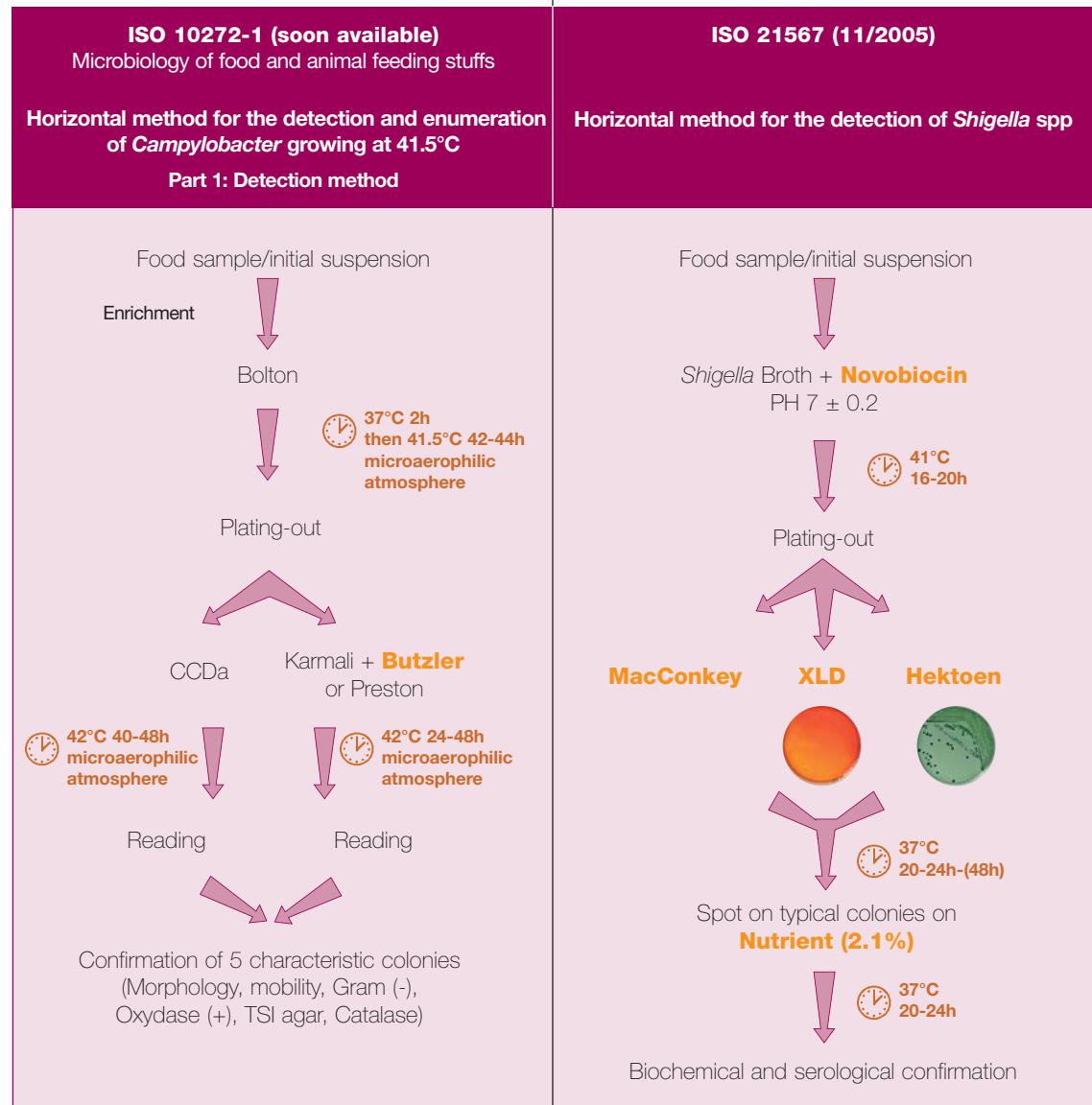
Catalog #	Description
<b>Mossel (Mannitol egg Yolk Polymixin)/Agar</b>	
Dehydrated	
356-9604	500 g



### Ordering Information

Catalog #	Description
<b>Butzler/Agar</b>	
Ready to use	
356-3514	90 mm x 10 dishes

### Thermotolerant *Campylobacter*



### *Shigella*

### Ordering Information

Catalog #	Description
<b>XLD (Xylose Lysine Deoxycholate)/ Broth</b>	
Dehydrated	
356-9124	500 g
Ready to use	
354-1751	90 mm x 20 dishes
<b>MacConkey (with crystal violet)/ Agar</b>	
Dehydrated	
356-9084	500 g
Ready to use	
356-3617	90 mm x 20 dishes
355-4119	100 ml x 6 bottles
<b>Hektoen/Agar</b>	
Dehydrated	
356-4284	500 g
Ready to use	
355-4386	100 ml x 6 vials
356-3894	90 mm x 20 dishes
<b>Nutrient (2.1%)/Agar</b>	
Dehydrated	
356-4485	500 g
<b>Supplement Novobiocin</b>	
Dehydrated	
356-4610	1 vial

## BIO-RAD

Bio-Rad  
Laboratories, Inc.

### Life Science Group

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