

The simple answer to a stack of work



Salmonella Rapid Culture Method

A quick and easy culture method for the detection and differentiation of *Salmonella* from food in just 2 days:

- SINGLE 18 HOUR ENRICHMENT BROTH
- SINGLE SAMPLE TRANSFER
- SINGLE 24 HOUR PLATE INCUBATION
- REDUCED TIME TO RESULT

The simple way to faster results

The Oxoid Salmonella Rapid Culture Method combines the benefits of **ONE Broth - Salmonella** and **Oxoid Salmonella Chromogenic Medium II (OSCM II)** to reduce time to result over standard culture methods.

ONE Broth - Salmonella is a highly nutritious medium for the recovery and growth of salmonellae while inhibiting the growth of competing organisms. The growth promoter in the medium allows recovery of stressed *Salmonella* cells - even when present in very low numbers.

OSCM II is the first in a new class of chromogenic media to incorporate novel Inhibigen™ technology. This new technology improves recovery of *Salmonella* by reducing background flora. Chromogens aid easy identification and differentiation by producing brightly coloured colonies.



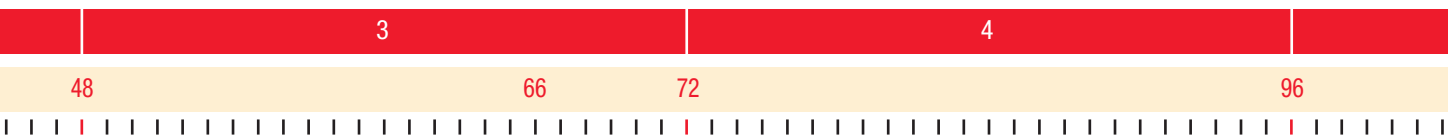
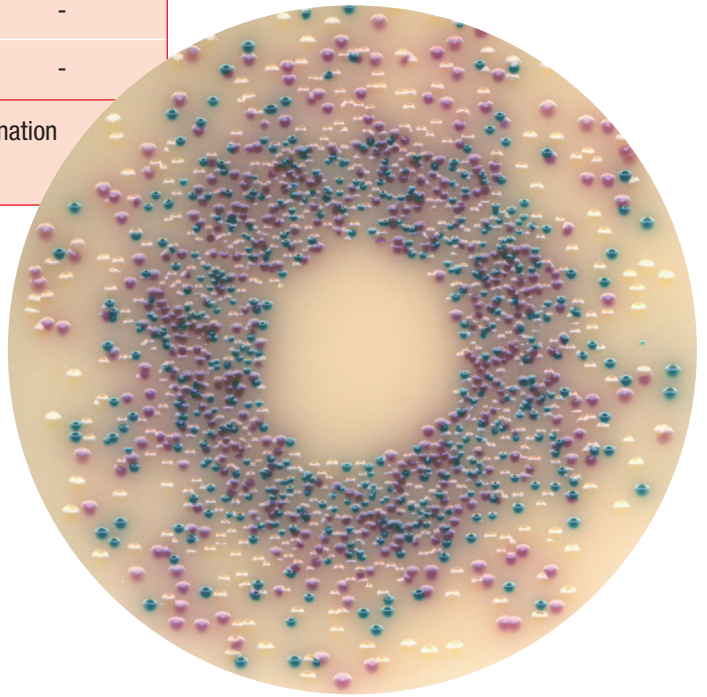
- Simple procedure
- One broth, one plate
- Reduced time to result
- Chromogens aid easy identification and differentiation
- Unique Inhibigen™ compound to inhibit non-target organisms
- No broth agitation required
- No need for specialised equipment

DAY	1		2	
HOURS	0	18	24	42
Oxoid Salmonella Rapid Culture Method	Single Enrichment Incubate for 18 hours ± 2 hours		Plating Streak onto OSCM II, incubate for 24 hours ± 2 hours	
BSI/ISO/EN 6579:2002	Pre Enrichment Incubate for 18 hours ± 2 hours		Selective Enrichment Incubate for 24 hours ± 3 hours	
FDA/BAM	Pre-Enrichment Incubate for 24 hours ± 2 hours		Selective Enrichment Incubate for 24 hours ± 2 hours	
HOURS	0	18	24	42
DAY	1		2	

Easy to read reactions

	Colony colour		
	Purple	Blue	Colourless
Enzyme targeted by chromogen	<i>Salmonella</i> (including Lactose positive <i>Salmonella</i>)	<i>Klebsiella</i> , <i>Enterobacter</i> , <i>Serratia</i>	<i>Citrobacter</i> , other bacteria and yeasts
Esterase	+	-/+	-
β-glucosidase	-	+	-

E. coli and other bacteria and yeasts are inhibited by the combination of Inhibigen™ and other selective agents in the medium.

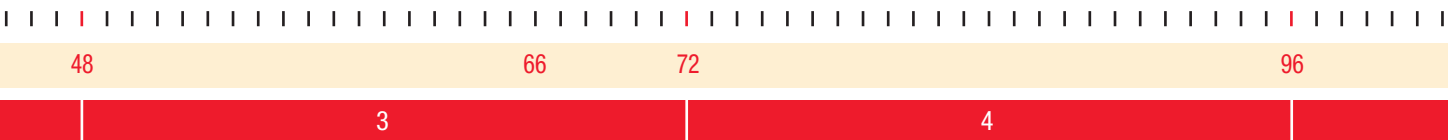


m suspect
es

Incubate for 24 hours ± 2 hours

Confirm suspect colonies

Plating XLD and Hekteen Enteric Agar: Incubate for 24 hours ± 2 hours	Confirm suspect colonies
Plating Bismuth Sulphite Agar: Incubate for 24 hours ± 2 hours	Reincubate for 24 hours ± 2 hours
	Confirm suspect colonies



Oxoid Salmonella Rapid Culture Method

ONE Broth - Salmonella & OSCM II

SUMMARY

Oxoid Salmonella Rapid Culture Method provides a simple protocol for the recovery and presumptive identification of *Salmonella* in as little as 38 hours.

ONE Broth - Salmonella is a highly nutritious and selective medium which allows sufficient recovery to be achieved within 16-20 hours with no need for a secondary enrichment broth. Simply inoculate the incubated broth onto OSCM II.

OSCM II is a unique agar that combines the benefits of chromogenic media and new Inhibigen™ technology with impressive results. Inhibigens™ are a new class of selective agent, developed by Oxoid, which can be used to target specific groups of organisms and prevent them from growing. In OSCM II, a specifically tailored Inhibigen™ is combined with other selective agents to significantly reduce the the growth of non-target micro-organisms. Carefully selected chromogens give excellent differentiation making *Salmonella* easier to identify, reducing the number of false positive colonies requiring confirmation. For further information on how the chromogens and Inhibigens™ work in OSCM II, please refer to information sheet no: LT1090A.

FORMULATIONS

ONE Broth - Salmonella	GRAMS PER LITRE
Peptone	5.0
Yeast extract	5.0
Salt buffer mix	10.0
Growth promoter mix	5.0
Novobiocin	12.0mg
Final pH 7.0 ± 0.2 at 25°C	

OSCM II	GRAMS PER LITRE
Salmonella Growth Mix	14.0
Chromogenic Mix	25.0
Agar	15.0
Novobiocin	5.0mg
Cefsulodin	12.0mg
Final pH 7.3 ± 0.1 at 25°C	

PRODUCT	SIZE	ORDER CODE
ONE Broth - Salmonella Base	500g	CM1091B
ONE Broth - Salmonella Selective Supplement (225 ml)	10 vials	SR0242E
ONE Broth - Salmonella Selective Supplement (2.25 litres)	10 vials	SR0242B
ONE Broth - Salmonella	10 x 225ml	B01096S*
OSCM II Base	108g (2 litres)	CM1092E
OSCM II Base	500g	CM1092B
Salmonella Selective Supplement (500 ml)	10 vials	SR0194E
OSCM II Plates	10 plates	P01118A/ P05098A*

* Check codes and availability with your local Oxoid supplier.

500g of ONE Broth - Salmonella Base **CM1091** will make 20 litres. This will require supplementation with either 88.9 vials of SR0242E or 8.9 vials of SR0242B. Each box of supplement contains 10 vials.

500g of OSCM II Base **CM1092** will make 9.2 litres. Each litre of medium requires the addition of 2 vials of Salmonella Selective Supplement **SR0194E**. Each box of supplement contains 10 vials.

DIRECTIONS

ONE Broth - Salmonella

Suspend 5.6g of ONE Broth - Salmonella Base in 225ml of distilled water. Sterilise by autoclaving at 121°C for 15 minutes. Cool to below 50°C and add the contents of 1 vial of ONE Broth - Salmonella Supplement (SR0242E), re-suspended as directed. If preferred, a vial of SR0242B may be used to supplement 2.25 litres of ONE Broth - Salmonella Base.

OSCM II

Suspend 27g of OSCM II Base in 500ml of distilled water. Add the contents of 1 vial of Salmonella Selective Supplement, re-suspended as directed. Mix well and sterilise by bringing to the boil with frequent agitation. Cool to around 50°C, mix well and pour into sterile Petri dishes.

N.B. When making OSCM II it is critical that the selective supplement is added prior to heating. When preparing volumes greater than 1 litre contact Oxoid Technical Support for directions.

METHOD OF USE

1. Add 25g or 25ml of food sample to 225ml of ONE Broth - Salmonella. For solid samples, stomach for a minimum of 30 seconds to mix the sample.
2. Incubate the broth at 42°C ± 1°C for 18 h ± 2 h.
3. Gently agitate the bag then, using a 10µl microbiological loop, inoculate the broth onto an OSCM II plate using a diminishing sweep technique to produce single colonies.
4. Incubate the plates at 37°C for 24 h ± 2 h.
5. Confirm purple colonies as *Salmonella* species by appropriate biochemical and serological methods.

The following Oxoid products may be useful for confirmation: Nutrient Agar **CM0003**, Oxoid Salmonella Latex Test Kit **DR1108A**, Microbact and Agglutinating Sera (see Oxoid product list for codes).

APPEARANCE

ONE BROTH - SALMONELLA

Dehydrated broth base: straw coloured, free-flowing powder. **Selective supplement:** white, freeze-dried pellet. **Prepared medium:** straw coloured clear liquid.

OSCM II

Dehydrated agar base: white/cream coloured, free-flowing powder. **Selective supplement:** white, freeze-dried pellet. **Prepared medium:** white/cream coloured opaque gel.

STORAGE AND STABILITY

ONE Broth - Salmonella Base and OSCM II Base should be stored tightly capped in the original containers at 10-30°C. The supplements should be stored in the dark at 2-8°C. When stored as directed, the unopened products will remain stable until the expiry date printed on the packaging. Store in-house prepared medium in the dark at 2-8°C for a validated period. Store Oxoid prepared media as indicated on the packaging.

LIMITATIONS AND PRECAUTIONS

With all *Salmonella* methods there are a small number of atypical strains that may give a weak reaction or fail to grow.

ONE Broth - Salmonella Base, OSCM II Base and Supplements are for laboratory use only.

Do not use ONE Broth - Salmonella Base, OSCM II Base and Supplements beyond stated expiry dates, or if the products show any signs of deterioration.

Material Safety Data Sheets and QC certificates are available on the Oxoid website www.oxoid.com

QUALITY CONTROL TESTING

ONE BROTH - SALMONELLA	CULTI-LOOPS® ORDER CODE	APPEARANCE
<i>Salmonella</i> Typhimurium ATCC® 14028™†	C6000L	Turbid
<i>Staphylococcus aureus</i> ATCC® 25923™†	C7010L	Inhibited
OSCM II	CULTI-LOOPS® ORDER CODE	APPEARANCE
<i>Salmonella</i> Typhimurium ATCC® 14028™†	C6000L	Good growth Purple colony
<i>Klebsiella pneumoniae</i> ATCC® 13883™†	C7037L	Good growth Blue colony
<i>Enterococcus faecalis</i> ATCC® 29212™†	C7030L	Inhibited
<i>Escherichia coli</i> ATCC® 25922™†	C7050L	Inhibited

References: 1. Stringer, J.R., *et al.* (2006) Evaluation of a New Plating Medium for the Isolation and Presumptive Identification of *Salmonella*. Poster presented at the International Association of Food Protection Meeting, Calgary, Canada and Food Micro Meeting, Bologna, Italy.



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