

## TECHNICAL DATA SHEET

# SALMONELLA ENRICHMENT DOUBLE-STRENGTH BUFFERED

### ENRICHMENT FOR *SALMONELLA* IN ACID PRODUCTS

## 1 INTENDED USE

*Salmonella* Enrichment double-strength buffered is a special formulation of Double-strength Buffered Peptone Water that has been created and controlled for optimal detection of *Salmonella* in food products and feed with an acid pH (lower than 4,5).

The *Salmonella* Enrichment double-strength buffered complies with NF EN ISO 6579-1 standard (Horizontal method for the detection, enumeration and serotyping of *Salmonella* spp.). This medium complies also with the NF EN ISO 6887-1 (General rules for the preparation of the initial suspension and decimal dilutions) and with the NF EN ISO 6887-4 standard (Specific rules for the preparation of miscellaneous products). *Salmonella* Enrichment double-strength can be used as Double-strength Buffered Peptone Water in required methods.

*Salmonella* Enrichment double-strength buffered has been specially formulated for the validated methods IRIS *Salmonella*<sup>®</sup> and SESAME *Salmonella* TEST<sup>®</sup> and can be also used as Double-strength Buffered Peptone Water in all required methods.

## 2 PRINCIPLES

The peptide composition and osmotic balance of *Salmonella* Enrichment double-strength buffered medium have been optimized to allow an exceptional resuscitation level of *Salmonella* strains.

The high strength of the buffer ingredients maintains a neutral pH at  $7.0 \pm 0.5$  for the preparation of suspension of acidic products.

## 3 TYPICAL COMPOSITION

The composition can be adjusted in order to obtain optimal performance.

The *Salmonella* Enrichment double-strength buffered formulation conforms to that of double-strength buffered peptone water.

For 1 liter of *Salmonella* Enrichment double-strength buffered :

- Peptone .....	10,0 g
- Sodium chloride .....	5,0 g
- Disodium phosphate, anhydrous .....	7,12 g
- Monopotassium phosphate .....	3,0 g

pH if the ready-to-use media at 25 °C :  $7,0 \pm 0,2$ .

## 4 PREPARATION

- Dissolve 25,1 g of dehydrated media (BK225) in 1 liter of distilled or demineralized water.
- Stir slowly until complete dissolution.
- Dispense into tubes or vials.
- Sterilize in an autoclave at 121 °C for 15 minutes.
- Cool to room temperature.

✓ **Reconstitution :**  
25,1 g/L

✓ **Sterilization :**  
15 min at 121 °C

## 5 INSTRUCTIONS FOR USE

- Introduce aseptically 25 g of the sample to be tested into 225 mL ready-to-use *Salmonella* Enrichment double-strength buffered in order to achieve a 1:10 dilution.
- or
- Introduce aseptically X g of the sample to be tested into 9 X mL ready-to-use *Salmonella* Enrichment double-strength buffered in order to respect the 1:10 dilution ratio of 1 part sample + 9 parts of diluent mL.
  - Mix well.
  - Incubate at temperatures and for the periods required by the analytical protocol chosen.

## 6 QUALITY CONTROL

**Dehydrated media** : cream-white powder, free-flowing and homogeneous.

**Prepared media** : amber solution, limpid, may present a slight precipitate after prolonged storage.

Typical culture response (NF EN ISO 11133) :

Microorganisms		Growth
<sup>(1)</sup> <i>Salmonella</i> Typhimurium	WDCM 00031	Positive, score 2
<sup>(1)</sup> <i>Salmonella</i> Enteritidis	WDCM 00030	Positive, score 2
<sup>(1)</sup> <i>Escherichia coli</i>	WDCM 00012	Positive, score 2
<sup>(2)</sup> <i>Listeria monocytogenes</i> 4b	WDCM 00021	± 30 % colonies / T <sub>0</sub>
<sup>(2)</sup> <i>Listeria monocytogenes</i> ½a	WDCM 00109	± 30 % colonies / T <sub>0</sub>
<sup>(3)</sup> <i>Escherichia coli</i>	WDCM 00012	± 30 % colonies / T <sub>0</sub>
<sup>(3)</sup> <i>Staphylococcus aureus</i>	WDCM 00034	± 30 % colonies / T <sub>0</sub>

<sup>(1)</sup> After 18 hours of incubation at 37 °C (inoculum ≤ 10<sup>2</sup> microorganisms)

<sup>(2)</sup> After 60 minutes of incubation at 20 °C

<sup>(3)</sup> After 45-60 minutes of incubation at 20-25 °C

## 7 STORAGE / SHELF LIFE

**Dehydrated media** : 2-30 °C.

**Ready-to-use media in flexible bags, in vials** : 2-25 °C.

The expiration dates are indicated on the labels.

## 8 PACKAGING

**Dehydrated media** :

500 g vial..... BK225HA  
5 kg drum ..... BK225GC

**Ready-to-use media** :

2 x 5 L flexible bags ..... BM20008  
10 vials of 225 mL..... BM20108

## 9 BIBLIOGRAPHY

NF EN ISO 6579-1. Avril 2017. Microbiologie de la chaîne alimentaire - Méthode horizontale pour la recherche, le dénombrement et le sérotypage des *Salmonella* - Partie 1 : recherche des *Salmonella* spp.

NF EN ISO 6887-1. Juin 2017. Microbiologie de la chaîne alimentaire - Préparation des échantillons, de la suspension mère et des dilutions décimales en vue de l'examen microbiologique - Partie 1 : règles générales pour la préparation de la suspension mère et des dilutions décimales.

NF EN ISO 6887-4. Juin 2017. Microbiologie de la chaîne alimentaire - Préparation des échantillons, de la suspension mère et des dilutions décimales en vue de l'examen microbiologique - Partie 4 : règles spécifiques pour la préparation de produits variés.

## 10 ADDITIONAL INFORMATION

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**IRIS *Salmonella***<sup>®</sup>, **COMPASS**<sup>®</sup> and **SESAME *Salmonella* TEST**<sup>®</sup> are registered trademarks of SOLABIA S.A.S

The information provided on the labels take precedence over the formulations or instructions described in this document and are susceptible to modification at any time, without warning.

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