

## TECHNICAL DATA SHEET

# NON-ANIMAL TRYPTIC SOY BROTH

### NON-ANIMAL NUTRIENT MEDIA

## 1 INTENDED USE

Non-Animal Tryptic Soy broth is a universal nutrient medium that can be used for a wide range of uses. Given its excellent nutritive value, it favors the culture of a wide variety of microorganisms. Particular applications of Non-Animal Tryptic Soy broth are in the cosmetic, agro-food and pharmaceutical industries for sterility control where the presence of animal and/or bovine origin products is of concern.

## 2 PRINCIPLES

A judicious selection of plant peptones, including papaic soy peptone, allows for optimal growth of a wide range of microorganisms.

Glucose constitutes an efficient energy source.

Sodium chloride maintains osmotic balance.

Dipotassium phosphate acts as a buffer to maintain a constant pH.

## 3 TYPICAL COMPOSITION

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

For 1 liter of media :

- Plant peptone mixture .....	20,0 g
- Glucose .....	2,5 g
- Dipotassium phosphate .....	2,5 g
- Sodium chloride .....	5,0 g

pH of the ready-to-use media at 25 °C :  $7,3 \pm 0,2$ .

## 4 PREPARATION

- Dissolve 30,0 g of dehydrated media (BK180) in 1 liter of distilled or demineralized water.
- Stir slowly until complete dissolution.
- Dispense in tubes or vials.
- Sterilize in an autoclave at 121°C for 15 minutes.
- Cool to room temperature.

✓ **Reconstitution :**  
30,0 g/L

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

## 5 INSTRUCTIONS FOR USE

- Inoculate the media with pure culture or with mixed microflora, according to the protocols chosen.
- The media should be incubated at 30 °C or at 37 °C for 3 to 15 days, according to the instructions in the chosen protocol.

## 6 RESULTS

Growth results in turbidity of the medium.

## 7 QUALITY CONTROL

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

**Prepared media** : amber solution, limpid.

Typical culture response after 72 hours of incubation at 32,5 °C (inoculum ≤ 100 microorganisms) :

Microorganisms		Growth
<i>Staphylococcus aureus</i>	WDCM 00032	Positive
<i>Bacillus subtilis</i>	WDCM 00003	Positive
<i>Salmonella</i> Typhimurium	WDCM 00031	Positive
<i>Pseudomonas aeruginosa</i>	WDCM 00026	Positive

## 8 STORAGE / SHELF LIFE

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**Dehydrated media** : 2-30 °C.

The expiration date is indicated on the label.

**Prepared media in tubes or vials (\*)** : 180 days at 2-25 °C.

(\*) Benchmark value determined under standard preparation conditions, following manufacturer's instructions.

## 9 PACKAGING

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**Dehydrated media** :

500 g bottle ..... BK180HA

## 10 ADDITIONAL INFORMATION

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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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