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Tryptone Soya Yeast Extract Agar (TSYEA)

Tryptone Soya Yeast Extract Broth is recommended for confirmation of *Listeria* in Henrys light.

REF: BS.1/SY01.100.0100	100 Gram	REF: BS.1/SY01.250.0250	250 Gram
REF: BS.1/SY01.500.0500	500 Gram		

CLINICAL SIGNIFICANCE

Tryptone Soya Yeast Extract Broth is formulated as per APHA (1) for the isolation and cultivation of *Listeria monocytogenes* from foods. ISO Committee (2) has recommended for the cultivation and maintenance of a wide variety of heterotrophic microorganisms (3).

METHOD PRINCIPLE

Casein enzymic hydrolysate and papaic digest of soyabean meal provide amino acids and other complex nitrogenous substances. Dextrose is the energy source. Dipotassium hydrogen phosphate acts as buffering system to control pH. Yeast extract is the rich source of vitamin B complex. According to FDAs enrichment procedure (4) for isolation of Listeria monocytogenes from dairy products, the sample to be tested is inoculated in enrichment broth and incubated at 30°C for 24-48 hours.

MEDIA COMPOSITION

Item	Formula per liter of medium
- Casein enzymic hydrolysate	17.00 gm.
- Papaic digest of soyabean meal	3.000 gm.
- Sodium chloride	5.000 gm.
- Dipotassium hydrogen phosphate	2.500 gm.
- Dextrose	2.500 gm.
- Yeast extract	6.000 gm.
- Agar	15.00 gm.

PRECAUTIONS AND WARNINGS

Media to be handled by entitled and professionally educated person. Do not ingest or inhale.

Good Laboratories practices using appropriate precautions should be followed in:

- Wearing personnel protective equipment (overall, gloves, glasses,).
- Do not pipette by mouth.
- In case of contact with eyes or skin; rinse immediately with plenty of soap and water. In case of severe injuries; seek medical advice immediately.
- Respect country requirement for waste disposal.
  S56: dispose of this material and its container at hazardous or special waste collection point.
  S57: use appropriate container to avoid environmental contamination.
  S61: avoid release in environment.

  For further information, refer to the Tryptone soya yeast extract Agar material safety data sheet.

STORAGE AND STABILITY

BioScien Tryptone Soya Yeast Extract Agar dehydrated media are stable until expiration date stated on label when properly stored 10-30°C. The prepared medium should be stored at 2-8°C. Use before expiry date on the label. On opening, product should be properly stored dry, after tightly capping the bottle in order to avoid lump development due to the hygroscopic nature of the product. Improper storage of the product may lead to lump formation. Store in a dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use. Product performance is best if used within stated expiry period.

Final pH 7.3 ± 0.2 at 25°C

MEDIA PREPARATION

- Suspend 51 grams in 1000 ml distilled water.
- Adjust pH to *7.3 ± 0.2 at 25°C*
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.
- Mix well and pour into sterile Petri plates.

Deterioration

The color of ***BioScien*** Tryptone Soya Yeast Extract Agar is Cream to yellow homogeneous free flowing powder. If there are any physical changes, discard the medium.
The hydrated medium is Yellow coloured clear to slightly opalescent gel forms in Petri plates., media should not be used if there are any signs of deterioration (shrinking, cracking, or discoloration), and contaminations.

Type of specimen

Clinical samples

EQUIPMENT REQUIRED NOT PROVIDED

- Sterile cups
- Sterile Petri plates
- Incubator

PERFORMANCE CHARACTERISTICS

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

Test Organisms	Growth
Listeria monocytogens ATCC 19111	good- luxuriant
Listeria monocytogenes ATCC 19118	good- luxuriant

SYMBOLS IN PRODUCT LABELLING			
IVD	For in-vitro diagnostic use	Σ	Number of <n> test in the pack
LOT	Batch Code/Lot number		Caution
REF	Catalogue Number		Do not use if package is damaged
	Temperature Limitation		Consult Instruction for use
	Expiration Date		
	Manufactured by		

QUALITY CONTROL

To ensure adequate quality control, it is recommended that positive and negative control included in each run. If control values are found outside the defined range, check the system performance. If control still out of range please contact ***BioScien*** technical support.

REFERENCES

1. Vanderzant C. and Splittstoesser D. F., (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.
2. International Organization for Standardization (ISO), 1993, Draft, ISO/DIS 10560.
3. Atlas R. M. 2004, 3rd Ed., Handbook of Microbiological Media, Parks, L.C. (Ed.), CRC Press, Boca Raton.
4. FDA, Bacteriological Analytical Manual, 2005, 18th Ed., AOAC, Washington, DC.