

### **ASCL010 Sterile Soyabean Casein Digest Medium with 1.0 % Polysorbate 80**

Recommended as a general purpose medium used for cultivation of a wide variety of microorganisms and recommended for sterility testing of moulds and lower bacteria.

<b>Composition</b>	<b>Ingredients Gms / Litre</b>
Peptone from Casein	17.000
Peptone from Soya meal	3.000
D (+) glucose monohydrate	2.500
Sodium chloride	5.000
Di Potassium hydrogen phosphate	2.500
Polysorbate 80	1.000

#### **Appearance:**

Sterile Soyabean Casein Digest Medium with 1.0% Polysorbate 80 in Screw cap bottle

#### **pH (at 25°C):**

7.10 to 7.50

#### **Principle:**

Soyabean Casein Digest Medium is recommended by Indian Pharmacopoeia as sterility testing medium. The formulation is in accordance with the harmonized formulation of USP/EP/BP/JP/IP. It is also used for the sensitivity testing by the tube dilution method for antimicrobial agents. It is also employed in diagnostic research in microbiology. The combination of Peptone from casein and Peptone from Soya meal makes this medium nutritious by providing amino acids and long chain peptides for the growth of microorganisms. Natural sugars in soyabean promote growth of fastidious organism. D (+) glucose monohydrate is the fermentable source of carbon and di potassium hydrogen phosphate serves as the buffer in the medium. Sodium chloride maintains the osmotic balance of the medium. Polysorbate 80 neutralizes phenolic disinfectants, hexachlorophene and formalin compounds.

#### **Quantity of Medium**

100 ml medium in 200 ml bottle with screw cap

#### **Cultural Response**

Cultural characteristics observed after incubation at 30-35°C for 24 hours and recovery should be greater than 70%.

#### **Sterilization Method**

Sterilized by autoclaving at 121 °C as per validated cycle

#### **Sterility Test:**

Passes release criteria.

#### **Shelf Life and Storage Conditions:**

Use before expiry date on the label and store below 25°C.

#### **Reference Pharmacopoeia:**

USP/EP / BP / JP / IP