ASCDA016   **Soyabean Casein Digest Agar with Lecithin, Polysorbate 80 and β-Lactamase-II**

For detection and enumeration of microorganisms present from surfaces of manufacturing environment of antibiotics like Penicillins, Cephalosporins of first, second, third and fourth generation and Penems.

Composition	Ingredients Gms / Litre
Pancreatic digest of casein	15.000
Papaic digest of soyabean meal	5.000
Sodium chloride	5.000
Agar	15.000
Polysorbate 80	5.000
Lecithin	0.700
β-Lactamase-II	As per Customer Requirement

Appearance:

Light yellow to medium amber colour Sterile Soyabean Casein Digest Agar with with Lecithin, Polysorbate 80 and β-Lactamase-II in 55 mm Petri Plates.

pH (at 25℃):

7.3 ± 0.2

Principle:

Soyabean Casein Digest Agar is used for detection and enumeration of vide variety of microorganisms present on the surfaces of sanitary importance. Scientist Leavitt et al., 1955 has discovered this media which supports the growth of aerobic and anaerobic microorganisms. Medium contains pancreatic digest of casein and Papaic digest of soyabean meal as sources of nitrogen, vitamins, amino acids and other necessary minerals. Sodium chloride is added for the osmotic balance of the media. Agar is a solidifying agent. On addition of Lecithin and Polysorbate 80 helps in neutralizing phenols, hexachlorophene, formalin and ethanol or inactivate some of the preservatives that may inhibit bacterial growth. β-Lactamase-II is efficiently inactivate wide range of antibiotics like Penicillins, Cephalosporins of first, second, third and fourth generation and Penems.

Quantity of Medium:

17 ml of medium in 55 mm plates

Dose of Gamma irradiation:

12 to 17 KGy

Cultural Response:

Growth Promotion test shall be carried out in accordance with the harmonized method and growth observation after an incubation at 30-35℃ for 18-24 hours and recovery should be greater than 70%.

Sterility Test:

Passes release criteria.

Shelf Life and Storage Conditions:

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

Reference Pharmacopoeia:

IP/USP/EP