



## Soyabean Casein Digest Medium w/BCP

LQ148

### Intended Use:

Recommended for cultivation of wide variety of microorganisms with the addition of carbohydrates it can be used for fermentation studies.

### Composition\*\*

Ingredients	g / L
Tryptone	17.000
Soya peptone	3.000
Sodium chloride	5.000
Dipotassium hydrogen phosphate	2.500
Dextrose (Glucose)	2.500
Bromocresol purple	0.010
Final pH ( at 25°C)	7.3±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Label the ready to use LQ148 bottle. Inoculate 50-100 cfu sample and Incubate at specified temperature and time.

### Principle And Interpretation

Soyabean Casein Digest Medium is a nutritious medium that will support the growth of a wide variety of microorganisms, including common aerobic, facultative and anaerobic bacteria and fungi (1-4). It can also be used as a general, all purpose cultivation medium (3). When tested for the growth of organisms in presence of indicator like bromocresol purple, the colour of the medium changes from purple to yellow. With the addition of carbohydrates it can be also used for the fermentation studies of fastidious and non-fastidious organisms.

Tryptone and soya peptone provides necessary amino acids and other complex nitrogenous substances. Dextrose serves as an energy source. Sodium chloride maintains the osmotic equilibrium. Dipotassium phosphate acts as a buffer to control pH.

### Type of specimen

Environmental monitoring- Sterility testing in manufacturing process.

### Specimen Collection and Handling

For environmental monitoring, follow appropriate techniques for sample processing in case of viscous materials as mentioned under sterility (1,4).

After use, contaminated materials must be sterilized by autoclaving before discarding.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/face protection. Follow good microbiological lab practices while handling specimens and culture. Standard precautions as per established guidelines should be followed while handling specimens. Safety guidelines may be referred in individual safety data sheets.

### Limitations

1. Further biochemical testing is required on colonies of pure culture for complete identification.
2. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.

### Performance and Evaluation

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

### Quality Control

#### Appearance

Sterile clear Soyabean Casein Digest Medium w/BCP in glass bottle.

**Colour**

Purple coloured clear solution

**Quantity of Medium**

100 ml of medium in glass bottle.

**pH**

7.10-7.50

**Sterility Check**

Passes release criteria

**Cultural Response**

Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours (*Candida albicans* incubated at 20-25°C for 2-7 days).

Organism	Inoculum (CFU)	Growth	Colour of medium
<i>Candida albicans</i> ATCC 10231 (00054*)	50-100	luxuriant	yellow
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923 (00034*)	50-100	good-luxuriant	yellow
<i>Escherichia coli</i> ATCC 25922 (00013*)	50-100	good-luxuriant	yellow
** <i>Bacillus spizizenii</i> ATCC 6633 (00003*)	50-100	good-luxuriant	yellow

Key : (\*) Corresponding WDCM numbers.

\*\*Formerly known as *Bacillus subtilis* subsp. *spizizenii*

**Storage and Shelf Life**

On receipt store between 15-30°C. Use before expiry date on the label. Product performance is best if used within stated expiry period.

**Disposal**

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with sample must be decontaminated and disposed of in accordance with current laboratory techniques (5,6).

**Reference**

- Forbes, Sahm and Weissfeld. 1998. Bailey & Scotts diagnostic microbiology, 10th ed. Mosby, Inc. St. Louis, Mo.
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- MacFaddin. 1985. Media for isolation-cultivation-identification-maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, Md.
- Marshall (ed.). 1993. Standard methods for the examination of dairy products, 16th ed. American Public Health Association, Washington, D.C.
- Isenberg, H.D. Clinical Microbiology Procedures Handbook 2nd Edition.
- Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W.(2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

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