

**Dichloran HiVeg™ Medium Base with Rose Bengal****MV1000**

Dichloran HiVeg Medium Base with Rose Bengal is used for selective isolation and enumeration of Fungi-yeasts and moulds of significance in food spoilage.

**Composition \*\* :**

Ingredients	Grams/Litre
HiVeg peptone	5.0
Dextrose	10.0
Monopotassium phosphate	1.0
Magnesium sulphate	0.5
Rose Bengal	0.025
Dichloran	0.002
Agar	15.0

Final pH (at 25°C) 5.6 ± 0.2

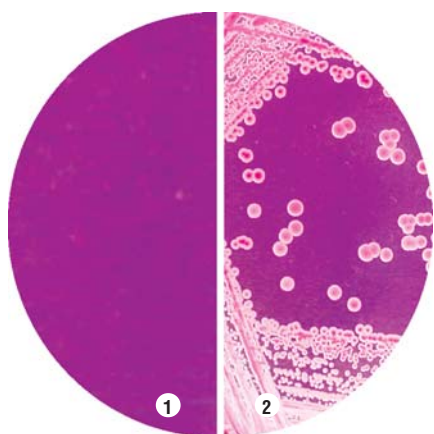
\*\* Formula adjusted, standardized to suit performance parameters.

**Directions :**

Suspend 15.76 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile reconstituted contents of 1 vial of Chloramphenicol Selective Supplement (FD033). Mix well and pour into sterile petri plates.

**Principle and Interpretation :**

Dichloran HiVeg Medium Base with Rose Bengal is prepared by replacing animal based peptone with vegetable peptones which is free from BSE/TSE. Dichloran HiVeg Medium Base with Rose Bengal is the modification of Dichloran Medium Base with Rose Bengal which is formulated as described by King et al (1), which is a modification of Rose Bengal Chloramphenicol Agar (2). It is recommended for the selective isolation and enumeration of yeasts and moulds of importance in food spoilage. Dichloran HiVeg Medium Base with Rose Bengal is the modification of this medium by replacing animal based peptone with vegetable peptones and it serves the same purpose.



**MV1000 Dichloran HiVeg Medium Base with Rose Bengal**

1. Control
2. *Saccharomyces cerevisiae*

**Product Profile :**

Vegetable based (Code MV)Ⓞ	Animal based (Code M)
<b>MV1000</b> HiVeg peptone	<b>M1000</b> Peptic digest of animal tissue

**Recommended for** : Selective isolation and enumeration of fungi, yeasts & moulds.

**Reconstitution** : 31.5 g/l

**Quantity on preparation (500g)** : 15.87 L

**pH (25°C)** : 5.6 ± 0.2

**Supplement** : Chloramphenicol Selective Supplement (FD033)

**Sterilization** : 121°C / 15 minutes.

**Storage** : Dry Medium - Below 30°C, Prepared Medium 2 - 8°C.

Dichloran inhibits spreading of moulds such as *Rhizopus* and *Mucor*. Chloramphenicol inhibits bacterial growth. Dichloran HiVeg Medium Base with Rose Bengal is used along with Rose Bengal Chloramphenicol Agar where it is necessary to enumerate yeasts in the presence of moulds. Add 40 ml of food sample to 200 ml of 0.1% HiVeg Peptone water (MV028) and shake periodically for 30 minutes (3) or process in stomacher for 30 seconds (4). Inoculate 0.1 ml of this sample on Dichloran HiVeg Medium Base with Rose Bengal. Report the number of colonies per gram of food.

**Quality Control :****Appearance of powder**

Light pink coloured, homogeneous, free flowing powder.

**Gelling**

Firm, comparable with 1.5% Agar gel.

**Colour and Clarity**

Pink coloured, clear to slightly opalescent gel forms in petri plates.

**Reaction**

Reaction of 3.15% w/v aqueous solution is pH 5.6 ± 0.2 at 25°C.

**Cultural Response**

Cultural characteristics observed after an incubation at 25-30°C for 5 days, on addition of 1 vial of Chloramphenicol Selective Supplement (FD033).

Organisms (ATCC)	Growth
<i>Bacillus subtilis</i> (6633)	inhibited
<i>Candida albicans</i> (10231)	good
<i>Escherichia coli</i> (25922)	inhibited
<i>Mucor racemosus</i> (42647)	good
<i>Saccharomyces cerevisiae</i> (9763)	good-luxuriant

**References :**

1. King D.A. Jr., Hocking A.D. and Pitt J.I., 1979, J. Appl. Environ. Microbiol., 37:959.
2. Jarvis B., 1973, J. Appl. Bact., 36:723.
3. Sharf J.M. (Ed.), 1966, American Public Health Association, 2<sup>nd</sup> ed., New York.
4. Sharp A.N. and Jackson A.K., 1972, J. Appl. Bact., 24:175.