

## TM 680 – BRUCELLA AGAR BASE, MODIFIED

### INTENDED USE

For cultivation of *Campylobacter* species.

### PRODUCT SUMMARY AND EXPLANATION

This medium is formulated so as to support luxuriant growth of fastidious bacteria like *Campylobacter* and *Brucella* species. For selective isolation of *Brucella* species, antibiotic mixtures are incorporated into the base. Farrel and Robinson formulated a highly selective antibiotic medium. Ethyl violet and Circulin, which were recommended originally, are no longer used. When non-selective medium is required, Brucella Broth Base may be employed with the addition of serum only (i.e. without antibiotics).

It is suggested in case of broth medium that half the tubes be incubated in the normal atmosphere, and half in a 10% CO<sub>2</sub> enriched atmosphere. *Brucella* species are highly infectious and so extreme care should be taken while handling. All presumptive anaerobic organisms must be further confirmed by the tests.

### COMPOSITION

Ingredients	Gms / Ltr
Tryptone	15.000
Peptone	5.000
Yeast extract	2.000
Dextrose (Glucose)	1.000
Sodium chloride	5.000
Sodium citrate	1.000
Sodium bisulphite	0.100
Agar	15.000

### PRINCIPLE

Peptone, Tryptone provide organic nitrogen to the organisms. Yeast extract also supply some nitrogenous nutrients but mainly it serves as a source of Vitamin B complex. Dextrose serves as an energy source. It can be enriched with 5% v/v sterile defibrinated horse blood.

### INSTRUCTION FOR USE

- Dissolve 22.05 grams in 500 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C and aseptically add sterile 5% v/v inactivated horse serum.
- Inactivate by heating at 56°C for 30 minutes) and rehydrated contents of one vial of Campylobacter Supplement III (Skirrow) and sterile reconstituted contents of one vial of Campylobacter Growth Supplement.
- Mix well before pouring into sterile petri plates.

### QUALITY CONTROL SPECIFICATIONS



**Appearance of Powder** : Cream to yellow coloured homogeneous free flowing powder.  
**Appearance of prepared medium** : Yellow coloured clear to slightly opalescent gel or solution forms in petri plates.  
**pH (at 25°C)** : 7.0±0.2

### INTERPRETATION

Cultural characteristics observed after incubation under 10% CO<sub>2</sub> with added sterile 5% v/v inactivated horse serum

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
<i>Campylobacter jejuni</i>	29428	50-100	Good-luxuriant	≥50%	35-37°C	24-48 Hours
<i>Campylobacter coli</i>	33559	50-100	Good-luxuriant	≥50%	35-37°C	24-48 Hours
<i>Escherichia coli</i>	25922	≥10 <sup>4</sup>	Inhibited	0%	35-37°C	24-48 Hours
<i>Staphylococcus aureus subsp. aureus</i>	25923	≥10 <sup>4</sup>	Inhibited	0%	35-37°C	24-48 Hours

### PACKAGING:

In pack size of 500 gm bottles.

### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.







### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

### REFERENCES

1. Alton G.G. and Jones L.M., 1967, Lab Technique in Brucellosis WHO, Geneva.
2. Farrell I.D. and Robinson L., 1972, J.Appl. Bact., 35:625.
3. Finegold et al (Ed.), 1990, Bailey and Scotts Diagnostic Microbiology, 8th ed., The C.V. Mosby Co., St. Louis.
4. Jones L. M. and Brinley M.W.J., 1958, Bull. Wld. Hlth. Org., 19:200.
5. Kuzdas C.D., and Morse E.V., 1953, J. Bact., 66 (4):502. 8. Renoux G., 1954, Ann. Inst. Pasteur, 87 (3):325.



<b>GMP</b> Good Manufacturing Practices Certified	<b>IVD</b> For In Vitro Diagnostic Use	<b>QTY.</b> Quantity	<b>LOT/ B. NO.</b> Lot / Batch Number	<b>REF</b> Catalogue Number	 Manufacturer
 Temperature Unit	<b>EC REP</b> MedNet GmbH Barkstrasse 10, 49163 Moenster, Germany Authorized Representative	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
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