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Columbia Agar

DM115

Intended Use
A versatile and nutritious medium for the growth of fastidious organisms.

Contents
See pack label.

Formulation*

Material:	Concentration in medium:
Special peptone mixture	20.0g/litre
D-Glucose	0.5g/litre
Starch	1.0g/litre
Sodium chloride	5.0g/litre
Agar A	12.5g/litre
Packing weight: 39.0g/litre	
Final pH: 7.3 ± 0.2	

Storage and shelf life
All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

Precautions
For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST® website).

Materials required but not provided
Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

Procedure
1. Suspend by swirling 39.0g of powder in 1 litre of distilled or deionised water.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. Cool to 50 to 55°C and hold at this temperature in a water bath. Add 5 to 7% sterile defibrinated horse or sheep blood where required. Heated blood agar (chocolate) can also be prepared. Alternative growth supplements can be used.
4. If required the medium can be made selective by the addition of various MAST® selective supplements.
5. Pour culture plates (15 to 20ml per plate) and allow to set.
6. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.
7. Inoculate plates by surface plating, streaking out for single colonies.
8. Incubate plates aerobically for 18 to 24 hours and anaerobically for up to 72 hours at 35 to 37°C (or alternative temperatures according to the methodology followed).

Interpretation of results
After incubation record growth of organisms. Typical characteristics to note include: colony size and morphology, pigmentation, and haemolysis on blood containing medium.

Quality control
Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	Result
Streptococcus pyogenes ATCC® 19615	Growth, β-haemolysis
Pseudomonas aeruginosa ATCC® 27853	Growth, pigmentation
Haemophilus influenzae ATCC® 49766	Growth

References
Bibliography available on request.

IFU312 GB 08/20 V7

*Formulation may change to meet performance criteria