CLED Medium (Bevis Modification) (NCM0220)

Intended Use
CLED Medium (Bevis Modification) is for the cultivation of coliforms, staphylococci and streptococci, and is not intended for use in the diagnosis of disease or other conditions in humans.

Description
Bevis modified Mackey and Sandys original medium by introducing a double indicator to improve the differentiation of lactose and non- lactose fermenting coliforms, staphylococci and streptococci. The swarming of *Proteus* spp. is inhibited. Neogen's NCM0220 CLED Medium will grow many of the more demanding streptococci of Lancefield groups A, B, C, G and F. This medium may not grow *Pasteurella* spp. or halophilic organisms.

Typical Formulation

Balanced Peptone	4.0 g/L
Beef Extract	3.0 g/L
Tryptone	4.0 g/L
Lactose	10.0 g/L
L-Cystine	0.128 g/L
Bromothymol Blue Indicator	0.02 g/L
Andrade's Indicator	0.08 g/L
Agar	15.0 g/L

Final pH: 7.5 ± 0.2 at 25°C
Formula may be adjusted and/or supplemented as required to meet performance specifications.

Precaution
Refer to SDS

Preparation
1. Suspend 36 grams of the medium in one liter of purified water.
2. Heat with frequent agitation and boil for one minute to completely dissolve the medium.
3. Autoclave at 121ºC for 15 minutes.
4. Cool to 45-50°C.

Test Procedure
Consult appropriate references for the isolation and identification of anaerobic bacteria.

Quality Control Specifications
Dehydrated Appearance: Green/blue, clear gel.

Minimum QC:
Escherichia coli ATCC 25922
Staphylococcus aureus ATCC 25923

620 Lesher Place • Lansing, MI 48912
800-234-5333 (USA/Canada) • 517-372-9200
foodsafety@neogen.com • foodsafety.neogen.com

Results

Organism	Colony size (mm)	Color	Other
E. coli	*2.0-3.0*	*Yellow/ Orange*	*(Blue if non-lactose fermenter)*
Proteus spp.	*2.0-3.0*	*Blue*	
Salmonella spp.	*2.0-3.0*	*Blue*	*(Yellow-orange if lactose +ve)*
S. aureus	*1.0-1.5*	*Yellow/ Orange*	*(Blue if non-lactose fermenting)*
Other staphylococci	*0.5-1.5*	*Blue-White*	*(Yellow if lactose fermenting)*
Enterococcus spp.	*0.5*	*Yellow-Orange*	

Expiration

Refer to expiration date stamped on the container. The dehydrated medium should be discarded if not free flowing or appearance has changed from the original color. Expiry applies to medium in its intact container when stored as directed.

Limitations of the Procedures

Due to nutritional variation, some strains may be encountered that grow poorly or fail to grow on this medium.

Storage

Store dehydrated culture media at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.

References

1. Bevis, T.D. (1968). A modified electrolyte-deficient culture medium. J. Med.
2. Lab. Tech., 25: 38-41. Mackey, J.P. and Sandys, G.H. (1966). Diagnosis of urinary infections, Brit.Med. J., 1: 1173.
3. Sandys, G.H. (1960). A new medium for preventing swarming of *Proteus* spp. with a description of a new medium suitable for use in routine laboratory practice. J. Med.Lab. Tech., 17: 224-233.

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