EE BROTH MOSSEL

APPLICATION	Enterobacteria Enrichment Broth-Mossel is a selective medium used for the detection of bile-tolerant Gram-negative bacteria in food and other materials of sanitary importance. This medium complies with the recommendations of the harmonized method in the United States Pharmacopoeia (USP) and European Pharmacopoeia (EP).
PRINCIPLE AND INTERPRETATION	The family *Enterobacteriaceae* consists of *Salmonella*, *Shigella* and other enteric pathogens: these organisms find entry into the food system through faecally contaminated water. Majority of these organisms may be eliminated under the stringent food processing parameters but some of these organisms may become sub lethally injured during the changes in pH, exposure to steam or heat and other unfavourable conditions.[1] Therefore the important aspect of food monitoring depends upon the identification and enumeration of these injured cells, after resuscitation. This medium is prepared in accordance with the harmonized method of USP/EP. [2,3] Pancreatic digest of gelatin and glucose monohydrate allows the growth of most of the members of *Enterobacteriaceae.* Brilliant green and ox-bile, purified are the inhibitory agents for gram-positive bacterias. Phosphates act as a good buffering agent and neutralizes acids produced by lactose fermenters that otherwise would adversely affect the growth of organism. Lactose negative, anaerogenic lactose-positive or late lactose fermenting *Enterobacteriaceae* are often missed by the standard Coli-aerogenes test. To overcome this problem, lactose is replaced by glucose in this medium. Phosphates form the buffering system of the medium. The cells damaged while drying or low pH are resuscitated in well-aerated Soybean Casein Digest Broth for 2 hours at 25°C prior to enrichment in EE Broth. The resuscitation procedure is recommended for dried foods, animal feeds and semi-preserved foods.
MEDIUM COMPOSITION*	Peptone……...……10.00 g/l Glucose monohydrate……..5.00 g/l Dehydrated ox-bile……20.00 g/l Disodium Hydrogen phosphate, dehydrate…….8.00 g/l Potassium hydrogen phosphate……...2.00 g/l Brilliant Green……...0.015 g/l Final pH 7.2 ± 0.2 * Adjusted and /or supplemented as required to meet performance criteria
STORAGE	+2/+25°C Protect from light, excessive heat, moisture and freezing
STERILIZATION	Autoclaved

[1] Mossel D.A.A., and Harrewijn G.A., Alimenta II, 29-30
[2] The US Pharmacopoeia, current Edition
[3] The European Pharmacopoeia, current Edition, European Dept. For the Quality of Medicines

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<table>
<tr>
<td>QUALITY CONTROL</td>
<td>Growth Promotion Test:
<table>
<tr><th>Control strain</th><th>Medium inoculation level</th><th>Incubation Conditions</th><th>Recovery Specifications</th></tr>
<tr><td>E. coli
ATCC 8739</td><td>10-100 viable microorganisms</td><td>18 h
at 32.5 ± 2.5°C</td><td>Positive growth.</td></tr>
<tr><td>E. aerogenes
ATCC 13048</td><td>10-100 viable microorganisms</td><td>18 h
at 32.5 ± 2.5°C</td><td>Positive growth.</td></tr>
<tr><td>P. aeruginosa
ATCC 9027</td><td>10-100 viable microorganisms</td><td>18 h
at 32.5 ± 2.5°C</td><td>Positive growth.</td></tr>
<tr><td>S. aureus
ATCC 6538</td><td>≥100 viable microorganisms</td><td>48 h
at 32.5 ± 2.5°C</td><td>Inhibited</td></tr>
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Sterility control: no growth
Appearance: green coloured, clear solution</td>
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<tr>
<td>GENERAL WARNING NOTES</td>
<td>Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use.
Disposal of waste must be carried out according to national and local regulations in force.</td>
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This item is available in:

- **Sterile bottled media**

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
100ml	**287E/30PSC28.100**	**287E/30PSC28.100.10** (10 bottles/pack)	100ml in 125ml volume, PP28 Screw Cap Bottle	6 months

Customized filling volumes and formulations are available upon request

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