

**m – ENDO BROTH (MEMBRANE FILTER)**

Selective medium for the enumeration of coliforms  
in water and milk by the membrane filter method

**Typical formula (g/l)**

Tryptone	5.000
Peptone	5.000
Tryptose	10.000
Yeast Extract	1.500
Lactose	12.500
Sodium Chloride	5.000
Dipotassium Hydrogen Phosphate	4.375
Potassium Dihydrogen Phosphate	1.375
Sodium Sulphite	2.100
Sodium Desoxycholate	0.100
Sodium Lauryl Sulphate	0.050
Basic Fuchsin	1.050

**Directions**

Suspend 48g in 1000ml of cold distilled water containing 20ml of ethanol. Mix and heat to boiling, but do not over boil or sterilise in the autoclave. The medium should be used the day it is prepared: if necessary store in the dark at 2-8 °C for no more than 3 days.

WARNING: Basic fuchsin is a potential carcinogen and care should be taken to avoid inhalation of the powdered medium and contamination of the skin (see section 1 of this Manual).

Final pH 7.2 ± 0.2

**Description**

m-Endo Broth is a selective medium for the enumeration of coliforms in water and milk by the membrane filter method. For the technique, see APHA indications.

Coliforms grow turning the medium purple, with or without a metallic sheen. The volume of specimen for filtration should be selected according to the number of expected colonies. The ideal quantity should supply a microbial growth of 50 to 200 colonies. With the exception of drinking water and swimming pool water, which must be filtered in duplicate to a volume of 100 or 500 ml, all other water specimens are filtered at three different volumetric levels, diluted and undiluted.

Preliminary enrichment of the specimens is unnecessary in the case of non-drinking water and wastewater.

In the case of drinking water, preliminary enrichment of the specimen gives excellent results, although it is not indispensable for the routine examination of specimens. For correct specimen enrichment procedure, see quoted literature.

**User quality assurance** (37°C-24 h)

Productivity control

*E.coli* ATCC 25922: growth, metallic colonies

*E.aerogenes* ATCC 25922: growth, red colonies

*S.enteritidis* ATCC 13076: growth, colourless colonies

**Storage**

Dehydrated medium: 10-30°C

User prepared tubes: up to 3 days at 2-8°C

**Reference**

APHA (1985). Standard Methods for the Examination of Water and Wastewater. 16th edition

**Packaging**

4014611	m-Endo Broth (Membran Filter),	100 g (2.1 l)
4014612	m-Endo Broth (Membran Filter),	500 g (10.4 l)