

O.F. MEDIUM WITH GLUCOSE

Semi-solid medium for determining the oxidative and/or fermentative metabolism of Gram-negative bacilli.

TYPICAL FORMULA	(g/l)
Pancreatic Digest of Casein	2.0
Sodium Chloride	5.0
Dipotassium Phosphate	0.3
Glucose	10.0
Bromthymol Blue	0.08
Agar	2.0
Final pH 6.8 ± 0.2	

DESCRIPTION

O.F. MEDIUM WITH GLUCOSE is a semi-solid medium used for determining the oxidative and/or fermentative metabolism of Gram-negative bacilli.

PRINCIPLE

Pancreatic digest of casein provides carbon, nitrogen, vitamins and minerals. Sodium chloride maintains the osmotic balance of the medium. Dipotassium phosphate acts as buffer agent. Glucose is the carbohydrate source. Bromthymol blue is the pH indicator. Agar is the solidifying agent.

TECHNIQUE

- 1. Inoculate two tubes of O.F. MEDIUM WITH GLUCOSE by stabbing "half way to the bottom" with the test organism.
- 2. Overlay one of the two tubes with 1 ml sterile vaseline oil to create anaerobic conditions.
- 3. Incubate the tubes at $35 \pm 2^{\circ}$ C for 24-48 hours.

INTERPRETATION OF RESULTS

Bacteria that can ferment glucose give a fermentative result as indicated by acid production in both the open (aerobic) and oil-covered (anaerobic) tube. The acid produced changes the pH indicator, bromthymol blue, from green to yellow. The semi-solid consistency of the medium also allows for detection of motility. Note hazy growth away from the stab line.

Nonfermenting bacteria that metabolize glucose via oxidative metabolism give an oxidative result. After a 24 hour incubation a yellow colouration is observed at the surface of the open tube where growth in the presence of oxygen is observed. No colour change or reaction occurs in the oil-covered tube.

Inactive strains do not use glucose and therefore do not induce any colour change in either tube. In some cases an increase a slight blue colouration, probably due to alkalinization by peptone degradation, can appear on the top of the open tube. Do not discard as negative until after 4 days of incubation.

STORAGE AND TRANSPORT CONDITIONS

10-25°C away from light, until the expiry date on the label. Eliminate if signs of deterioration or contamination are evident.

WARNING AND PRECAUTIONS

The product does not contain hazardous substances in concentrations exceeding the limits set by current legislation and therefore is not classified as dangerous. It is nevertheless recommended to consult the safety data sheet for its correct use. The product is designed for *In vitro* diagnostic use and must be used only by properly trained operators.

DISPOSAL OF WASTE

Disposal of waste must be carried out according to the national and local regulations in force.

REFERENCES

- Costin, I.D. (1967) An outline for the biochemical identification of aerobic and facultatively anaerobic gram-negative rods of medical interest. Intern. Kongr. f. Chemotherapie Wien, B2/1; 73-76.
- Hugh, R., A. Leifson, E. (1953) The taxonomic significance of fermentative versus oxidative metabolism of carbohydrates by various gram-negative bacteria. J. Bact., 66; 24-26.
- Mossel, D.A.A. Martin, G. (1961) Milieu simplifié permettant l'étude des divers modes d'action des bactéries sur les hydrates des carbone. - Ann. Inst. Pasteur de Lille, 12; 225-226.
- Welch, D.F., et al (1987) Selective and differential medium for recovery of Pseudomonas cepacia from the respiratory tracts of
 patients with cystic fibrosis. J. Clin. Microbiol., 25; 1730-1734.









NAME

O.F. MEDIUM WITH GLUCOSE

PRESENTATION

Glass tubes containing 10 ml of medium

STORAGE

10-25°C

PACKAGING

Ref.	Content	Packaging
24345	20 x 10 ml tubes	20 tubes in cardboard box

pH OF THE MEDIUM

. 6.8 ± 0.2

USE

O.F. MEDIUM WITH GLUCOSE is a semi-solid medium used for determining the oxidative and/or fermentative metabolism of Gram-negative bacilli

TECHNIQUE

Refer to technical sheet of the product

APPEARANCE OF THE MEDIUM

Appearance: limpid Colour: green

SHELFLIFE

2 years

QUALITY CONTROL

1. Control of general characteristics, label and print

2. Sterility control

- 7 days at 22 \pm 1°C, in aerobiosis 7 days at 36 \pm 1°C, in aerobiosis
- Microbiological control Inoculum for productivity: 10-100 CFU/ml Inoculum for selectivity: 10⁴-10⁵ CFU/ml Incubation Conditions: 24-48 hours at 35 ± 2°C

Microorganism

Pseudomonas aeruginosa Escherichia coli Salmonella typhimurium Enterococcus faecalis

ATCC® 27853 ATCC® 25922 ATCC® 14028 ATCC® 29212

Open tube
(oxidation)O
(Yellow mediumGreen

Yellow medium Yellow medium Green-blue medium

Oil-covered tube (fermentation)

Green-blue medium Yellow medium Yellow medium Green-blue medium

LOT Batch code	IVD In vitro Diagnostic Medical Device	Manufacturer	Use by	Fragile, handle with care	
REF Catalogue number	Temperature limitation	$\begin{tabular}{ c c c c } \hline Σ Contains sufficient for tests \end{tabular}$	Caution, consult instruction for use	Do not reuse	



