

HUGH-LEIFSON OF MEDIUM BASE

A semi-solid medium base for carbohydrate decomposition studies.

Dehydrated media	
Code number:	500 g: SUG20500, 5 kg: SUG25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,1 – 7,5

Direction: Suspend **12 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the filter sterilised sugar (10 g/l) solution to be examined to the medium. Dispense aseptically into sterile test tubes.

Prepared media	
Bottled media bases:	100 ml: SUG30100, 500 ml: SUG30500
Tubed media:	100 x 12 mm: SUG40004-? (4 ml) (See the list of sugars and their codes below.)
Colour:	Purple
pH (25 °C):	7,2 – 7,4

List of sugars and their supplementary codes							
Name	Code	Name	Code	Name	Code	Name	Code
Adonitol	-01	Glycerol	-07	Myo-inositol	-13	Trehalose	-19
Arabinose	-02	Inulin	-08	Na-tartrate	-14	Xylose	-20
Dulcitol	-03	Starch	-09	Rhamnose	-15	SLS	-21
Fructose	-04	Lactose	-10	Sucrose	-16		
Galactose	-05	Maltose	-11	Salicin	-17		
Glucose	-06	Mannitol	-12	Sorbitol	-18		

Direction: Supplement the melted bottled media bases with the required sugar solution according to the direction of the dehydrated media and dispense aseptically into sterile test tubes. Media in tubes are ready to use.

FORMULA in g/l

Peptones	3,00
Sodium chloride	5,00
Bromocresol purple	0,03
Buffers	1,00
Agar	3,00

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the tubed media protected from light at 2-8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37°C	Growth with 10 g/l lactose	Incubation time: 24 h
<i>Escherichia coli</i> ATCC 25922		Positive: Colour change to yellow	
<i>Salmonella typhimurium</i> ATCC 14028		Negative: No colour change	

References: Hugh and Leifson (1953) J. Bact. 66: 24.

In vitro diagnostic – for professional use only!