

GC AGAR BASE

A highly nutritious medium for the isolation and cultivation of fastidious micro-organisms especially *Neisseria* and *Haemophilus* spp.

Dehydrated media	
Code number:	500 g: GCA20500-04, 5 kg: GCA25000-04
Appearance:	Yellowish, homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,0 - 7,4

Direction for Thayer-Martin Agar: Suspend **20 g** in 460 ml 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 **35 ml of sterile defibrinated blood** and "chocolate" by heating at 80 °C for 10 min. Cool to 50 °C. Dissolve the contents of **one vial of Growth Factor Mixture Hydration Fluid** with 5 ml of sterile distilled water and add aseptically to the **Growth Factor Mixture (GFM80005)**. Mix well and add aseptically to the medium. Mix well before pouring

Direction for Selective Thayer-Martin Agar: Dissolve the contents of **one vial of GC Selective Supplement, VCN (VCN80004)** or **GC Selective Supplement, VCNT (VCT80004)** with 4 ml of sterile distilled water and add aseptically to 500 ml of Thayer-Martin Agar at 50 °C. Mix well before pouring.

Bottled media	
Code number:	100 ml: GCA30100-04, 500 ml: GCA30500-04
Appearance:	Yellowish, transparent gel
pH (25 °C):	7,1 - 7,3

Direction: Supplement the melted bottled media bases according to the direction of the dehydrated media and dispense aseptically into sterile Petri-dishes.

Plated media	
Code number of Thayer-Martin agar:	55 mm: GCA50055-01, 90 mm: GCA50090-01
Code number of Thayer-Martin agar, selective, VCN:	55 mm: GCA50055-02, 90 mm: GCA50090-02
Code number of Thayer-Martin agar, selective, VCNT:	55 mm: GCA50055-03, 90 mm: GCA50090-03
Appearance of plated media:	Chocolate brown, homogeneous turbid gel
pH (25 °C):	7,1 - 7,3

Direction: Media in Petri-dishes are ready to use.

FORMULA

Nutrient substrate (peptones, extracts)	15 g
Starch, soluble	1 g
Sodium chloride	5 g
Potassium phosphate, dibasic	4 g
Potassium phosphate, monobasic	1 g
Agar	14 g

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 plated 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	Incubation time: 24 h
<i>Haemophilus influenzae</i> ATCC 49766		Good	
<i>Escherichia coli</i> ATCC 25922		Inhibited (in case of selective media)	
<i>Streptococcus pyogenes</i> ATCC 19615		Inhibited (in case of selective media)	

References: Thayer and Martin (1966) Public Health Rep. 81: 559.

In vitro diagnostic – for professional use only!