

SIMMONS CITRATE AGAR

A synthetic differential medium for the differentiation of bacteria on the basis of citrate utilisation according to ISO 10273.

Dehydrated media	
Code number:	500 g: CIT20500, 5 kg: CIT25000
Colour:	Beige
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,7 – 7,1

Direction: Suspend **24 g** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 121 °C for 15 minutes. Allow to cool in slanted position.

Prepared media:	
Bottled media:	100 ml: CIT30100 500 ml: CIT30500
Tubed media:	100 x 12 mm: CIT40002 (2 ml - slant)
Colour:	Green
pH (25 °C):	6,8 – 7,0

Direction: Dispense the melted bottled media aseptically into sterile test tubes. Allow to cool in slanted position. Media in tubes are ready to use.

FORMULA in g/l

Sodium citrate	2,00
Sodium chloride	5,00
Magnesium sulphate	0,20
Bromothymol blue	0,08
Potassium phosphate, dibasic	1,00
Ammonium phosphate, monobasic	1,00
Agar	14,70

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	Incubation time: 24 h
<i>Klebsiella pneumoniae</i>	ATCC 13883	Positive, colour change to blue	
<i>Escherichia coli</i>	ATCC 25922	Negative, without colour change	

References: Simmons (1926) J. Infect. Dis. 39: 209.
ISO 10273:2017

In vitro diagnostic – for professional use only!