

IVD solutions through partnership



CHROMagar™ STEC

For detection of
Shiga-Toxin producing *E.coli* (STEC)

CHROMagar™
The Chromogenic Media Pioneer

● CHROMagar™ STEC

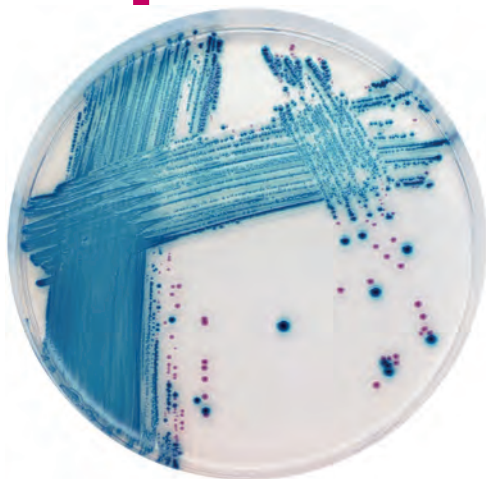
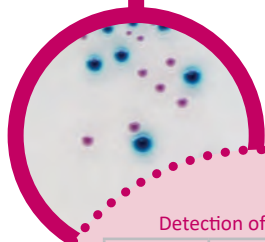


Plate Reading

- Most common Shiga-Toxin *E.coli* serotypes → mauve
- Other *Enterobacteriaceae* → colourless, blue or inhibited
- Gram positive bacteria → inhibited



Detection of the Big Six

Serotype	isolates	Sensitivity
O157	394/410	96%
O26	152/155	98%
O45	1/1	100%
O103	62/90	69%
O111	64/66	97%
O121	31/36	86%
O145	45/49	92%

Internal figures

More Scientific content available online



Manufacturer:

CHROMagar
4 place du 18 juin 1940 75006 Paris - France
e-mail: CHROMagar@CHROMagar.com
www.CHROMagar.com

For detection of Shiga-Toxin producing *E.coli* (STEC)

Background

An increasing and worrisome number of studies have recently shown that, non-O157 Shiga-Toxin-producing *E.coli* (STEC) have been responsible for foodborne poisoning outbreaks. The CDC has also reported warnings about this potential risk:

“Disease caused by Shiga toxin-producing *Escherichia coli* (STEC) ranges from self-limiting diarrhea to hemorrhagic colitis and hemolytic uremic syndrome (HUS). Serotype O157:H7, the most frequently implicated STEC causing hemorrhagic colitis and HUS, has been isolated from large foodborne outbreaks, as well as sporadic cases, in North America and abroad. However, 60 STEC serotypes have been implicated in diarrheal disease, and several non-O157:H7 serotypes have been implicated as the cause of foodborne outbreaks and HUS in the United States, Europe, and Australia. Studies from Canada, Europe, Argentina, and Australia suggest that non-O157:H7 STEC infections are as prevalent, or more so, than O157:H7 infection.”

CDC report « Prevalence of Non-O157:H7 Shiga Toxin-Producing *Escherichia coli* in Diarrheal Stool Samples [...]»

Therefore, several regulatory authorities urge worldwide food industry to implement measures to control the absence of such organisms in their production.

In many cases, laboratories have limited their search for pathogenic *E. coli* to the common O157 serotype. This is due, among other reasons, to the fact that there were no available selective culture media for non-O157 *E. coli*.

CHROMagar™ STEC is designed to fill this gap: detection, as mauve colonies, of not only the classical STEC O157, but also many other serotypes.

Medium Performance

- 1 Easy reading**
A majority of STEC strains grow in mauve colony color, while other bacteria grow in blue, colourless or are inhibited.
- 2 High STEC selective medium**
Excellent tool for large number of samples screening procedures.
- 3 Worldwide premiere**
Unique medium in the market for STEC detection.
- 4 Flexibility**
It can be supplemented with additional compounds to render it even more selective for the strain causing an outbreak.

Medium Description

Powder Base CHROMagar™ STEC base	Total	30.8 g/L
	Agar	15.0
+	Peptone and yeast extract	8.0
	Salts	5.2
CHROMagar™ STEC Supplement (included in the pack)	Chromogenic mix	2.6
	Storage at 15/30 °C - pH: 6.9 +/- 0.2	
	Shelf Life	> 18 months
	Freeze dried vials	qsf 1L or qsf 5L
	Storage at 15/30 °C	
	Aspect: Freeze dried	
	Shelf Life	> 18 months

Usual Samples	food, environmental, faeces.
Procedure	Direct Streaking. Incubation 18-24 h at 35-37 °C. +/- prior enrichment step. Aerobic conditions.

Scientific Publications on this product: available on www.CHROMagar.com
Please read carefully the instructions for use (IFU document) available on www.CHROMagar.com

Distributed by:
Mast Diagnostica GmbH
Feldstraße 20
DE-23858 Reinfeld

Tel: +49 (0)4533 2007 0
Fax: +49 (0)4533 2007 68
e-mail: mast@mast-diagnostica.de
www.mast-group.com

Ordering Information

Product	Order Code
CHROMagar™ STEC, 5 liter	15ST162
CHROMagar™ STEC ready to use plates, 20 pcs.	201381