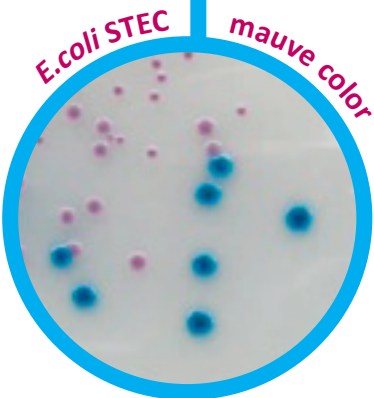


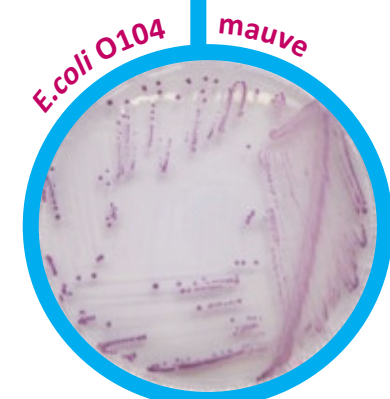
● CHROMagar™ STEC to screen *E.coli* O104

The harmful *E.coli* O104 recently detected in Germany was screened on worldwide premiere CHROMagar™ STEC chromogenic medium in 24h incubation time!



E.coli STEC

mauve color

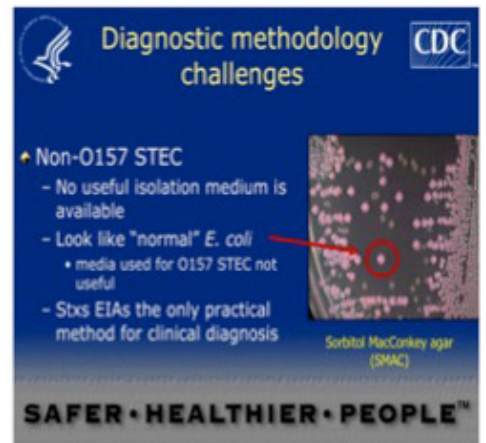


E.coli O104

mauve

As you have probably heard these late months, non-O157 ShigaToxin-producing *E.coli* (STEC) have been responsible for foodborne poisoning outbreaks, among them an *E.coli* O111 in Japan and these days an *E.coli* O104 in Germany. Warnings about this potential risk have been reported also by the CDC: From a CDC report « Prevalence of Non-O157:H7 Shiga Toxin-Producing *Escherichia coli* in Diarrheal Stool Samples... »:

“ 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.”



Powerpoint presentation from CDC: “Non-O157 Shiga Toxin-producing *Escherichia coli*: Isolation and detection challenges”

CHROMagar™ STEC: for screening of *E.coli* STEC including *E.coli* O104

So to address this challenge, CHROMagar™ has been working on a new medium, designed for the detection of STEC (and not only O157!!!). The result of this work is the CHROMagar™ STEC, a highly selective medium, allowing the growth of a majority of STEC strains in mauve colony color, while in general coloring in blue or inhibiting other bacteria. CHROMagar™ STEC has a good sensitivity and a good selectivity/specificity, making it an excellent tool for large number of samples screening procedures.

Growth of *E.coli* O104 on CHROMagar™ STEC chromogenic medium

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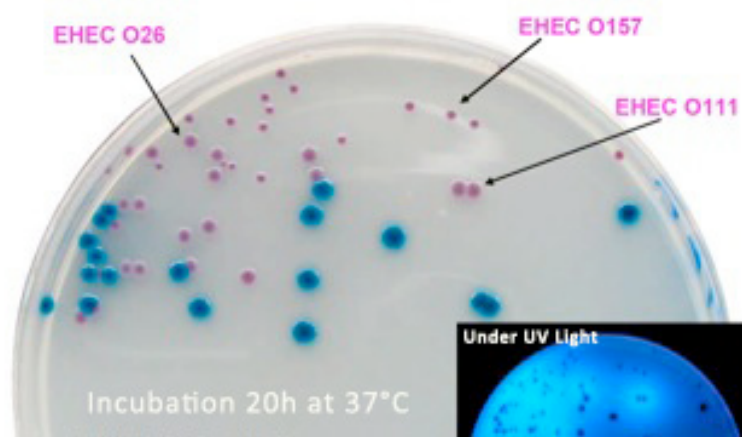
Tel: +1-908-233-2079

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EHEC O26

EHEC O157

EHEC O111

Under UV Light

Incubation 20h at 37°C

We thank Dr. Lothar Beutin from the National Reference Laboratory for *Escherichia coli* (Federal Institut for Risk Assessment - Germany) for the picture.