

Did you know?



CHROMagar™ STEC



Name of the publication:

"A rapid procedure for the detection and isolation of enterohaemorrhagic *Escherichia coli* (EHEC) serogroup O26, O103, O111, O118, O121, O145 and O157 strains and the aggregative EHEC O104:H4 strain from ready-to-eat vegetables."

International Journal of Food Microbiology October 2011

Abstracts from the publication:

« ...CHROMagar STEC was evaluated as a selective medium for the detection of EHEC strains. Growth on CHROMagar STEC was closely associated with EHEC O26:[H11], O111:[H8], O118:H16, O121:[H19], O145:[H28], O157:[H7] and aggregative EHEC O104:H4 strains and with the presence of the *terB* gene (tellurite resistance)... »

« ...The enrichment and detection method was applied in the examination of sprouted seeds incriminated as vehicles in the EHEC O104:H4 outbreak in Germany. Aggregative EHEC O104:H4 could be detected and isolated from a sample of sprouted seeds which was suspected as vector of transmission of EHEC O104 to humans... »

« ...CHROMagar STEC was found most suitable for the selection of strains belonging to major EHEC groups... »

« ...As CHROMagar STEC indicates major EHEC types including beta-glucuronidase-negative NSF EHEC O157:H7 as mauve colonies, it is not necessary to use specific media for NSF O157 (CT-SMAC or CHROMagar O157) for the detection of these pathogens... »

Contact us for complete article:
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doi:10.1016/j.ijfoodmicro.2011.10.009

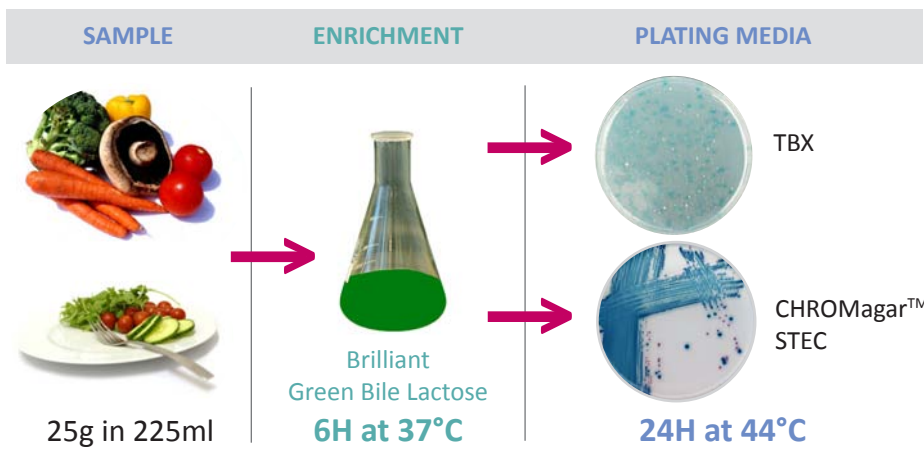
New Publication, Dr Beutin

Dr. Lothar Beutin, Federal Institute for Risk Assessment, BERLIN - Germany

STEC Detection Method based on CHROMagar™ STEC has shown great efficiency at the German Reference Center for *E.coli*.

Dr Lothar Beutin is one of the worldwide leading scientist in the field of Shiga-Toxin-like-producing *E.coli* (STEC). With his team at the Federal Institute for Risk Assessment in Berlin, he has evaluated different methods for the detection of STEC in food stuff. The results of these two years study on salad samples were presented in the Journal of Food Microbiology, issued Oct-2011. The team concluded that the **optimal culture method** consisted of a pre-enrichment of the sample in Brilliant Broth for 6 hours at 37°C, then plating 10µl in TBX and CHROMagar™ STEC and, incubation of the plates at 44°C for 18-24H.

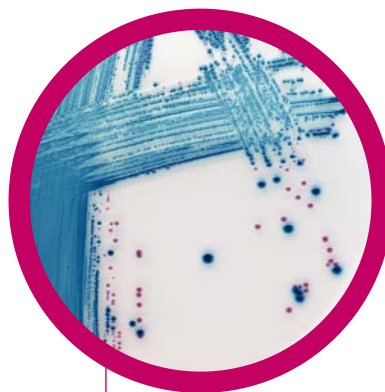
METHOD OF THE STUDY ON SALAD SAMPLES



--> Method used during the May 2011 *E.coli* O104 outbreak.

- STEC serotypes as mauve colonies:

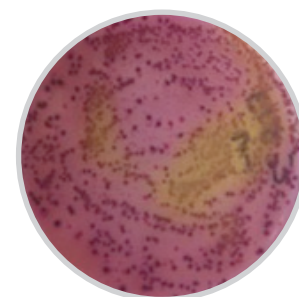
CHROMagar™ STEC



O157
O118
O145
O26
O111
O121
O103
aggregative
EHEC O104:H4

- CHROMagar™ STEC shows an easier reading compared to SMAC agar

CT SMAC + Xgluc agar :
non distinguishable colonies



CHROMagar
The Chromogenic Media Pioneer