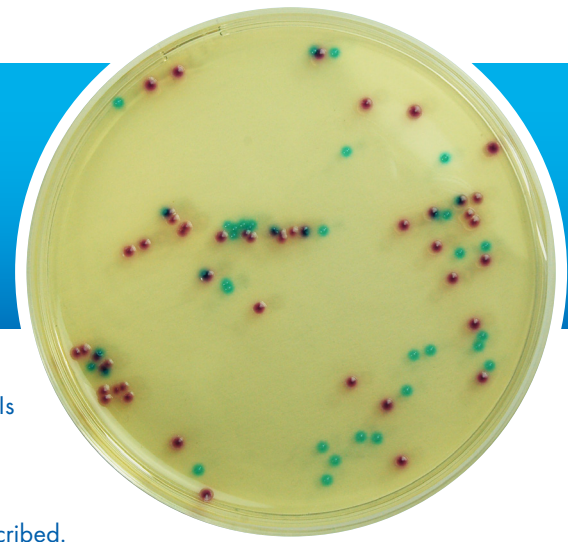


PP3005 PRIMARY UTI CHROMOGENIC AGAR



Urinary Tract Infections (UTIs) account for 35-40% of all hospital acquired infections in the UK. Gram –ve aerobic bacteria are responsible for a significant proportion of UTIs with *E.coli* isolation rates at 80-90% of first time infections. Whilst this rate drops to approximately 70% in subsequent incidences of infections, a wide range of other pathogenic and opportunistic bacterial species can cause UTIs. Therefore, accurate diagnosis of the causative organism is required for the appropriate antibiotic to be prescribed.

Primary UTI Agar is a non-selective, chromogenic medium designed to facilitate the rapid detection and presumptive identification of the major pathogens responsible for UTIs. Based on the traditional CLED medium, to prevent the swarming of *Proteus* spp., two chromogenic compounds are included in the medium. The first chromogen, allows for the detection of *E.coli* (purple colonies) and the second chromogen allows for the detection of other coliforms in the KESC group of organisms (blue colonies). Tryptophan is also included in the medium to indicate the presence of Tryptophan Deaminase (TDA) activity allowing for the detection of *Proteus* spp, *Morganella* spp and *Providencia* spp.

E.coli – Purple colonies

Klebsiella spp, *Enterobacter* spp, *Serratia* spp, *Citrobacter* spp. (KESC) – Metallic blue colonies

Staphylococcus spp. – White/pink colonies

Proteus spp, *Providencia* spp, *Morganella* spp. – Colourless colonies w brown halo

Enterococcus spp. – Turquoise blue colonies

| Formula | gm/litre | Properties | |
|-------------------------|----------|---|--|
| Proprietary information | 37.0 | Appearance Colour pH Storage Shelf Life | Firm Gel Straw 6.7 ± 0.2 2 - 8°C 70 days |

| Quality Control Test Organisms | Ref. No. | Result |
|--------------------------------|------------|--------------------------------|
| <i>Enterococcus faecalis</i> | NCTC 12697 | Turquoise / Blue Colonies |
| <i>Escherichia coli</i> | NCTC 12241 | Purple Colonies |
| <i>Proteus mirabilis</i> | NCTC 10975 | Clear Colonies with Brown Halo |
| <i>Enterobacter aerogenes</i> | NCTC 10006 | Metallic Blue Colonies |
| <i>Staphylococcus aureus</i> | NCTC 12981 | White Colonies |

Recommended Incubation : Aerobically at 37°C ± 1°C for 18 - 24 hours