

# Copro System Plus

System for detection and presumptive identification of intestinal pathogenic microorganisms directly from fecal sample



## DETECTED MICROORGANISMS

- *Salmonella spp*
- *Proteus spp*
- *Pseudomonas spp*
- *Yersinia enterocolitica*
- *Shigella spp*
- *Campylobacter jejunii*
- *Escherichia coli, E.coli O157*
- *Group KES microorganims*
- *Candida spp*

## ADVANTAGES

- *Direct inoculation of clinical sample*
- *Easy procedure of use*
- *Results within 18-24 hours*
- *Confirmation with serum agglutination tests*
- *Evaluation of intestinal bacterial flora*

# Copro System Plus

ref. 71675

20 test

## IMMUNOLOGICAL CONFIRMATION TESTS

- *Salmonella spp.*  
by serum agglutination test  
SALMONELLA LATEX KIT
- *Yersinia enterocolitica*  
by serum agglutination test  
YERSINIA ENTER. ANTISERUM
- *Shigella spp.*  
by serum agglutination test  
SHIGELLA ANTISERUM
- *E.coli* O157  
by serum agglutination test  
E.COLI O157 LATEX KIT
- *Campylobacter jejunii*  
by serum agglutination test  
CAMPYLOBACTER LATEX KIT

## BIOCHEMICAL CONFIRMATION TESTS

- *Escherichia coli*  
indole test with  
KOVAC'S Reagent
- *Pseudomonas spp.*  
oxidase test  
OXIDASE TEST DISCS
- Group KES microorganisms  
acetoine test  
VOGES PROSKAUER

## INTERPRETATION OF RESULTS

- Clear colour change of the wells with interpretation of the results after 18-24 hours incubation at  $36\pm 1^\circ\text{C}$

## NECESSARY ITEMS NOT CONTAINED IN THE PACKAGE

- SALMONELLA LATEX KIT (ref. 96151)
- YERSINIA ENT. ANTISERUM (ref. 96147)
- SHIGELLA ANTISERUM (ref. 96148)
- E.COLI O157 LATEX KIT (ref. 96150)
- CAMPYLOBACTER LATEX KIT (ref. 96143)
- OXIDASE TEST DISCS (ref. 88004)
- ENTEROSYSTEM I8R REAGENT (ref. 80252)

## TEST PROCEDURE



**A.** Homogenize carefully 1g feces in a tube containing 5mL of Physiological Solution.  
**B.** Transfer 0.2 mL of homogenized sample into a vial of *Physiological Solution* (Inoculum solution).



Transfer 0.2 mL (4 drops) of the Inoculum Solution into each wells of the system.



Cover the wells 1-LDC, 2-ORN, 3-H<sub>2</sub>S, 6-UR with two drops of vaseline oil and incubate at  $36\pm 1^\circ\text{C}$  for 18-24 hours.



Perform the serum agglutination test of the microbial culture from the well 4-SAL for confirming the presence of *Salmonella spp.*  
Watch for the appearance of a clear agglutination (Positive reaction).



Perform the oxidase test by adding an OXIDASE TEST DISC into the well 8-OX for confirming the presence of *Pseudomonas spp.* and watch for the formation of a blue-purple colouring within 2 minutes (Positive reaction).



Perform the specific serum agglutination test of the microbial culture from the wells 10-YER, 11-SHI, 12-CAM for confirming the presence of *Yersinia enterocolitica*, *Shigella spp* and *Campylobacter jejunii*.  
Watch for the appearance of a clear agglutination (Positive reaction).



Perform the indole test by adding 2 drops of Kovac's Reagent into the well 14-IND for confirming the presence of *Escherichia coli* and watch for the formation of a pink-red ring within 1 minute (Positive reaction).



Perform the Voges Proskauer test by 2 drops of alpha-naphthol and 1 drop of NaOH 40% into the well 16-VP, for confirming the presence of group KES microorganisms and watch for the formation of a pink-red colouring within 15-20 minute (Positive reaction).



Take a drop from the well 18-OBS, deposit it on a glass slide, cover it, and watch for chlamydo spores and mycelial hyphae at the microscope (40x) for confirming the presence of *Candida spp.*