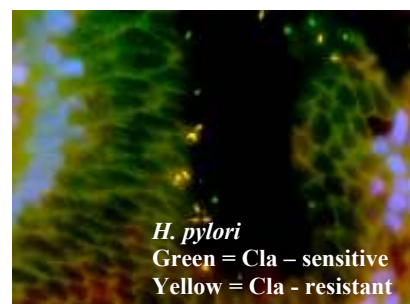
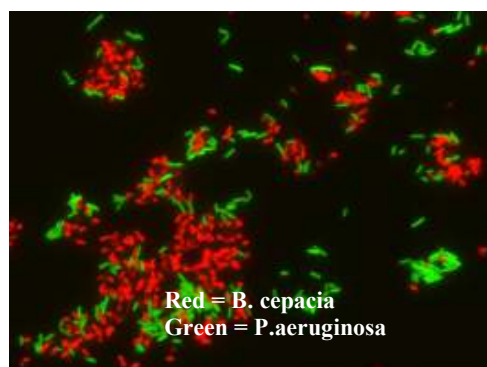
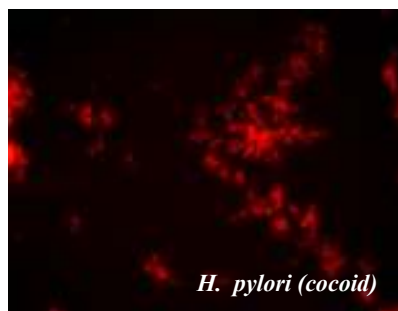


MICROGEN BIOPRODUCTS LTD



BACTfish™ REAL-TIME MICROBIOLOGY

**FLUORESCENCE *IN SITU* HYBRIDISATION (FISH) FOR THE FAST,
PRESUMPTIVE IDENTIFICATION OF 64 BACTERIAL SPECIES AND
GENERA DIRECT FROM PATIENT SAMPLES.**

BACTfish™ allows:

- ◆ Shorter turnaround time (illuminate pathogens direct from patient samples in 1 hour)
- ◆ Easy laboratory implementation
- ◆ Visual morphology check
- ◆ Efficient identification of mixed populations

Protecting Food and Health

MICROGEN BIOPRODUCTS LTD

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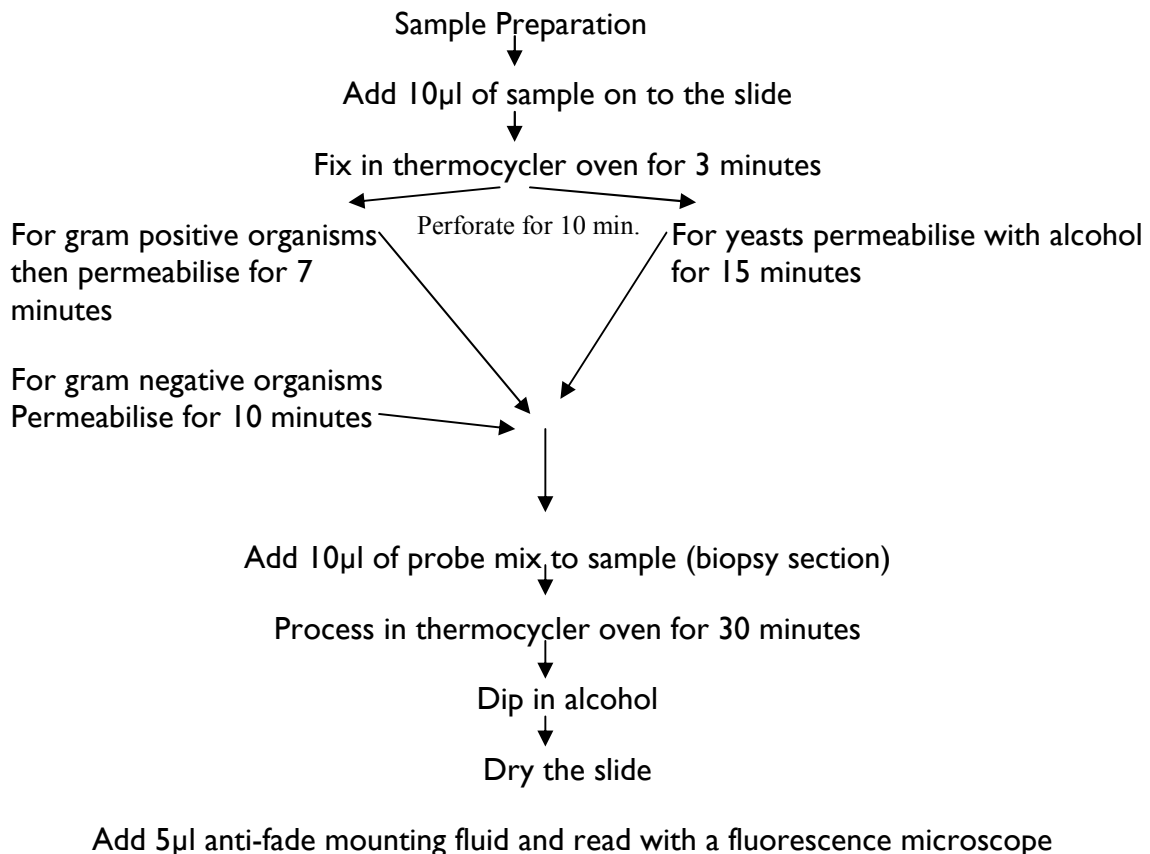
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Fluorescence *In Situ* Hybridisation (FISH) for the fast, presumptive identification of 64 bacterial species and genera direct from patient samples.

Samples such as swabs, smears, biopsies, body fluids, sputum, faeces, tissue samples, CSF and positive blood culture bottles can all be tested. Using the clinical symptoms and sample source Information, the panel of probes required can be reduced to between 2 and 16 that would cover 95% of the likely pathogens in that sample type. In some cases it is possible to perform identification and susceptibility in one assay eg *H. pylori* and clarithromycin susceptibility.

Procedure:



The method uses probes for the species specific 16S or 23S rRNA region. As the number of ribosomes per cell is high, there is no need to extract or amplify in order to detect. Using patented methodology, the bacterial cells are fixed using microwave radiation. Probes are then added to the sample and enter through the permeabilised cell membrane and, using cycles of touchdown annealing, bind to target-specific ribosomal RNA. Unbound probes are removed by washing and the slides observed using a fluorescence microscope.

Turnaround time is 50mins for Gram negative organisms and 60mins for Gram positives (extra step required for cell wall perforation) direct from sample not including sample processing.