

CLIN-TECH LIMITED

GRAM STAINING KITS

IVD

Catalogue numbers
621005, 621006,
621015, 621016,
621001, 621009

CE

INTENDED USE

For the demonstration of Gram positive and Gram negative bacteria in smears, exudates and tissues.

Note:- If picking from colonies, pick from the edge.

KIT PRESENTATION

REAGENTS	621005 /6*	621015 /6*	621001	621009
Gram's Crystal Violet	500mL	500mL	1 Litre	5 Litres
Gram's Decolouriser	500mL	500mL	1 Litre	5 Litres
Gram's Iodine	500mL	N/A	1 Litre	5 Litres
Gram's Stabilised Iodine	N/A	500mL	N/A	N/A
Safranin O	500mL	500mL	1 Litre	5 Litres

Do not use beyond the expiry date printed on the reagent label.

*621006 and 621016 are in dropper bottles

TEST PROTOCOL

1. Make a thin smear on a microscope slide and fix with gentle heat.
2. Stain with Crystal Violet for approximately 30 seconds
3. Pour off the Crystal Violet and replace with Gram's Iodine / stabilised Iodine for 30 – 60 seconds
4. Rinse with water and apply the Decolouriser for about 30 seconds, or until no more excess colour seems to come from the preparation (Do not over decolourise!).
5. Rinse with water and apply Safranin O for 3 minutes.
6. Rinse with water, blot gently and dry with gentle heat.
7. Examine under the microscope, using the oil immersion lens.

RESULTS

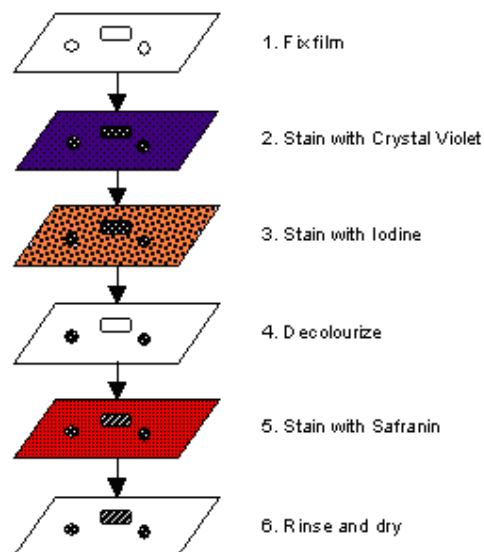
GRAM NEGATIVE:	organisms will appear red on examination.
GRAM POSITIVE:	organisms will appear blue / black on examination

PROCEDURAL NOTES

Some Gram positive bacteria lose the ability to resist decolourization with age giving incorrect negative results, it is important therefore to examine young cultures.

Genuinely Gram negative bacteria do not retain Crystal Violet which is easily removed by the decolouriser.

PROCEDURAL SCHEMATIC



Gram Positive



Gram Negative



REFERENCES

PRESTON NW, MORRELL A. Reproducible results with the Gram stain. J Pathol Bacteriol. 1962 Jul;**84**:241–243.

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Instructions for use edition C22-105