

# CRYSTAL VIOLET SOLUTION

Crystal violet solution for Gram Stain Set.

Code number:	100 ml: GPK60100-VS
Colour:	Purple
Appearance:	Transparent, residue-free solutions

## Procedure:

- Staining:** Prepare 1:4 mixture of crystal violet and ammonium oxalate solutions and filtrate. Pour the mixture onto the smear (prepared on fat-free slide, and fixed with heat).  
 Incubation time: 30 seconds.  
 After incubation rinse the slide carefully with tap water.
- Staining:** Stain the slide with lugol solution.  
 Incubation time: 30 seconds.  
 After incubation rinse the slide carefully with tap water.
- Decolouration:** Apply differentiating solution by dropping it onto the slanted slide until the dripping solution becomes colourless.  
 After decolouration rinse the slide carefully with tap water.
- Contrast staining:** Stain the slide with safranin solution.  
 Incubation time: 30 seconds.  
 After incubation rinse the slide carefully with tap water.
- Drying:** Leave the slide in vertical position to become dry totally on room temperature.

## Evaluation:

Gram positive: Dark purple colonies.

Gram negative: Red colonies.

## FORMULA

Crystal violet	10%
Solvent	Ethanol 96%

**Storage conditions:** Store the bottles protected from light at room temperature. Use before the expiry date on the label.

## Quality control:

Test strains	Results
<i>Streptococcus pneumoniae</i>	Positive
<i>Escherichia coli</i>	Negative

**References:** Gram (1884) Fortschritte der Medizin 2: 185

**In vitro diagnostics – for professional use only!**