

Crystal Violet Solution (0.5%)

Description Crystal Violet Solutions are the standard dye for staining gram positive bacteria.

Uses/Limitations Not to be taken internally.
For in vitro diagnostic use only.
Histological applications.
Do not use if reagents become cloudy.
Do not use past expiration date.
Use caution when handling reagents.
Non-Sterile.

Control Tissue Any well fixed tissue section.
Air dried smear.

Precautions Avoid contact with skin and eyes.
Harmful if swallowed.
Follow all Federal, State, and local regulations regarding disposal.

Procedure 1. Deparaffinize sections if necessary and hydrate to distilled water.
2. Apply adequate Crystal Violet Solution to completely cover tissue section and incubate for 1-3 minute(s).
3. Rinse slide in distilled water to remove excess stain.
4. Continue with desired gram staining protocol.

Note: Gram positive bacteria that are dying, dead or being treated with antibiotics may stain variably (red).

Reference 1. Sheehan, DC., Hrapchak, BB. Theory and Practice of Histotechnology; 1980, page 235.
2. Su, R.J., Wang, P. Role of Gram stain in microbiological laboratories with limited resources. Reviews in Medical Microbiology. July 2011, Volume 22, Issue 3: pages 41-44. Doi: 10.1097/MRM.0b013e3283478a08.
3. Marira, J., Surekha, Y, Asangi, K.S., Suresh, B.S., Ramesh, S. Sputum Gram Stain Assessment in Relation to Sputum Culture for Respiratory Tract Infections in a Tertiary Care Hospital. Journal of Clinical and Diagnostic Research. December 2011, Volume 5(8): pages 1699-1700.