DNAbiotech

Biotechnology is our expertise

Gram Stain Kit

Catalog no.: DB9812

4 bottle of 100 ml

Intended for Research Use Only

Modares Technology and Sciences Park, Room 510. No. 15, Gordafarid-heyat junction, North Kargar, Enghelan Square, Tehran, I.R. Iran

Www.dnabiotch.ir

Cell phone: +989128382915

Diba NoAvaran Azma Company

Customer and technical support

If you have any question, do not hesitate to ask! DNAbiotech would be highly appreciated for any comment(s).

Contact us at
www.dnabiotech.ir
Tell: +989128382915
E-mail: dnabiotechco@gmail.com

Quality Control
In accordance with DNAbiotech Co. Management System, each part of the product tested against predetermined specifications to ensure consistent product quality.

General description

The Gram staining method is named after Hans Christian Gram, the Danish bacteriologist who originally devised it in 1844, and is one of the most important staining techniques in microbiology. It is almost always the first test performed for the identification of bacteria.
The **Gram Stain Kit** is to determine the **Gram** reaction **for** microorganisms identification. Crystal Violet **stains** bacterial cell. Iodine, the mordant, bind the **stain**. Alcohol-acetone solution, the decolorizer, differentiates bacteria by retaining or not crystal violet, within their cell wall.

Product Information

Cat #: DB9812
Form: Liquid
Featured industry: For Research Use Only
Shipped in: RT

Storage condition: RT

Kit component:

No.	Name	Volume	Stability time
1	R1: crystal violet reagent	100 ml	18 months
2	R2: iodine solution	100 ml	18 months
3	R3: decolorizer	100 ml	18 months
4	R4: fuschin solution	100 ml	18 months
5	Plastic dropper	5 pcs. (10 ml)	-----

General Protocol

1. Wear gloves and prepare the bacterial smear, hold the slide with a cloth pin. Air-dry the culture and fix it or over a gentle flame while moving the slide in a circular fashion to avoid localized overheating.
   Note: In order to heat fix a **bacterial smear**, it is necessary to first let the **bacterial** sample air dry.
2. Add about 5 drops (cover the smear) of warmed (37° C) crystal violet reagent (R1) over the fixed culture. Let stand for 60 seconds.
3. Pour off the stain and gently rinse the excess stain with a stream of H2O.
   Note: **Note: wash off the stain, not the fixed culture.**
4. Add about 5 drops of the warmed iodine solution (R2) on the smear, enough to cover the fixed culture. Let stand for 60 seconds.
5. Pour off the stain and gently rinse the excess stain with a stream of H2O.
6. Add a few drops of warmed decolorizer (R3) so the solution trickles down the slide. Rinse it off withwater after 10-30 seconds or till no longer color remain on the slide. Longer decolorizer on smear **will cause excess decolorization** in the gram-positive cells, and proper staining will not occur.
7. Rinse the smear with a stream of H2O.
8. Add a few drops of warmed fuschin solution (R4) for 30-60 seconds.
9. Let the smear be dried and examine under the microscope.

Other products & services:

- ✓ Cloning and expression of different recombinant peptides
- ✓ Gene, Primer and peptide synthesizing
- ✓ Bioinformatics services
- ✓ Production of column based DNA extraction kits.
- ✓ Production of secondary antibodies (goat anti mouse, anti rabbit and anti human antibodies, HRP conjugated).
- ✓ PFU master mix
- ✓ Molecular grade buffers (TAE, TBE, RIPA and….)
- ✓ And ….

For more information visit us at “www.dnabiotech.ir”

More Products Launch Coming Soon!