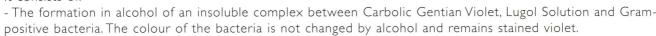
Kit Gram-Nicolle

Staining Kit for the Differentiation

of Gram-Positive from Gram-Negative Bacteria



Gram-Nicolle is a differential staining procedure that uses the wall structure of bacteria to distinguish the Gram-positive bacteria from the Gram-negative bacteria. It consists of:



- The wall of Gram-negative bacteria is more permeable to alcohol. This permeability causes the Carbolic Gentian Violet-Lugol Solution complex to dissolve. The colour of Gram-negative bacteria is changed by alcohol, is fixed by Ziehl Carbolic Fuchsin and is stained pink.



Staining Procedure:

Length of test: 3 minutes

- Fix the smear with a low heat (or cold with 95°-alcohol) Allow the preparation to cool
- Stain with Carbolic Gentian Violet (Bottle 1):

I to 5 minutes

- Wash thoroughly with tap water to get rid of excess solution I
- Rinse with a jet of Lugol, PVP-Stabilized Solution (Bottle 2) to get rid of any trace of water, 30 seconds to Iminute then cover with solution 2:
- Quickly rinse with water
- Bleach with Fast Differentiator (Bottle 3), then rinse with water
- Stain with **Ziehl Carbolic Fuchsin I/I0** (Bottle 4):

I minute

• Wash the smear with water, dry, then examine under a x100-immersion-objective microscope.

Use:

For professional use only

In vitro use only

The collection and processing of chemical and biological waste must be conducted by specialised and registered companies.

Bibliography:

CLARK G., Staining Procedure, Williams & Wilkins, 4th ed., 1981, p. 377-379. LANGERON M., Précis de microscopie, Masson & Cie, 6 ème éd., 1942, p. 553-556. RICHARD C, Gram et la collaboration de Gram, Ass. Anc. El. Inst. Pasteur, vol. 33, n°129, 1991, p. 15-19.

Ordering:

Kit Gram Nicolle

Code 364320-0000

I kit (4 x 240 ml)

Edited: 26/08/2004 Updated: 27/05/04





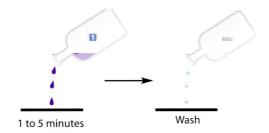
Kit Gram-Nicolle

Staining Kit for the Differentiation of Gram-Positive from Gram-Negative Bacteria

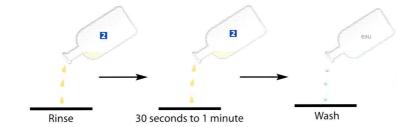
	Number of tests possible:	230 to 300 slides
	Storage temperature:	15-25°C
Kit Components:		
	Bottle ! : Carbolic Gentian Violet	I × 240 ml
	Bottle 2: Lugol, PVP-Stabilized Solution	I × 240 ml
	Bottle 1: Fast Differentiator	I × 240 ml
	Bottle 4: Ziehl Carbolic Fuchsin 1/10	I × 240 ml

Staining Procedure:

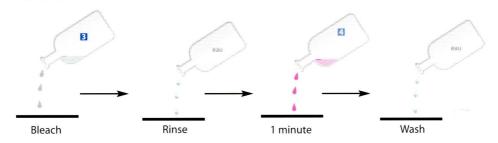
STEP 1: Stain with Carbolic Gentian Violet and wash thoroughly with tap water



STEP 2: Rinse and cover with Lugol, PVP-Stabilized Solution



STEP 3 & 4: Bleach with Fast Differentiator and cover with Ziehl Carbolic Fuchsin 1/10



Results:

Gram-positive bacteria: Gram-negative bacteria:

violet pink