

	TECHNICAL DATA SHEET	806030en	Date: 19/03/15
		Revision 5	Page 1/2

Codes: 806030
Lugol's Iodine

2014 catalogue page: 99

Code	Description	Case quantity	Case weight	Case volume
806030	Lugol's Iodine, 250 ml bottle	16	4.76	0.014

Danger symbols: R52

SPECIFIC USE AND DESCRIPTION

Stains are used in Bacteriology to help visualise the morphology of bacteria that are almost transparent due to their insignificant size.

Differential methods allow to differentiate bacteria, according to groups that appear differently stained. The Gram method separates bacteria in two large groups, according to the colour they turn into: gram positive bacteria turn into violet, and gram negative bacteria turn into pink. This property results from the distinctive composition of the cell wall of each group of bacteria.

Lugol forms a compound with Gentian violet and the components of the cell wall of Gram positive bacteria, which prevents its decolourising by alcohol-acetone, whereas Gram negative bacteria are decolourised and are subsequently stained by safranin.

It is recommended to stain young cultures (24-36 h). For exclusive use as laboratory reactive.

Supplied with instructions for use. Supplied in opaque PET bottle featuring a white polyethylene cap and a tamper evident seal.

DIFFERENTIAL STAINING BY THE GRAM METHOD

Method

- Take a clean and degreased microscopy slide (see our general catalogue).
- Prepare a thin and homogenous smear. This can be done directly from a culture which is in a liquid medium, from a bacterial suspension obtained by homogenising 1-2 colonies in saline solution, or directly from a patient's sample.
- Let dry and fix the smear by placing the slide over the flame of a Bunsen burner. Avoid excessive heat.
- Place the slide onto a staining rack (Codes S003, S004, S002; see general catalogue).
- Flush the slide with crystal violet during 1 minute.
- Wash the slide with water from wash bottle (Codes 443000, 191638; see general catalogue).
- Flush the slide with Lugol during 1 minute.
- Decolourise with alcohol-acetone until water no longer has a violet colour.
- Wash with water from a wash bottle (Codes 443000, 191638; see general catalogue).
- Flush the slide with safranin (stain D) during 1 minute.

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	TECHNICAL DATA SHEET	806030en	Date: 19/03/15
		Revision 5	Page 2/2

- Wash with water from a wash bottle (Codes 443000, 191638; see general catalogue).
- Let drip in vertical position (Example: in basket code CP24, CP30, see general catalogue) and dry at room temperature.
- Visualise with an immersion objective. Put a drop of oil between the smear and the lens.

Reading

Gram positive bacteria appear violet-blue and Gram negative ones appear pink.

Storage

Store between 15 and 25°C until the expiry date printed on the label.

Expiry date

Two years from preparation date.

Our stains are manufactured according to the European Norm ISO 9001 : 2000 "Quality Systems. Model for quality assurance in production, facilities and customer service". Copy of the ISO 9001 Certificate available upon request.

Please see also the safety data sheet for this product.

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