

TECHNICAL DATA SHEET

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Gram decolorizing code 805001

code	description	volume (ml)	case quantity	case weight (kg)	case volume (m ³)
805001	gram decolorizing	250	16	4.25	0.015

Minimum order quantity: 1



USE - 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 the 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.

DIFFERENTIAL STAINING BY THE GRAM METHOD

- Method Take a clean and degreased microscopy slide (codes B100001, B100002, B100003, B100004; protected in an aluminium paper to avoid the formation of particles; see general catalogue).
- Prepare a thin and homogenous smear. This can be done directly from a culture which is in a medium liquid, 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.
- 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.

WRITTEN	VERIFIED	AUTHORISED
Pascal Montoya Brand & Communication Department	Anna Mir Technical, RA, Quality & Environment Director	Mònica Torras Commercial Integration Director

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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 after-sales service". Copy of the ISO 9001 Certificate available upon request.

Please see also the security sheet for this product.

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