



1A-182

Rose bengal

In-vitro diagnostic agent

Description

The product 1A-182 is a dry dye for the preparation of a staining solution for professional users for histology applications. The product comes in 5 different pack sizes: 1A-182.00010 (10g bottle), 1A-182.00025 (25g bottle), 1A-182.00100 (100g bottle), 1A-182.00500 (500g bottle) and 1A-182.01000 (1kg bucket).

Main components

Rose bengal (CI 45440)

Purpose

Staining using "rose bengal" is used for the detection of dead cells (mainly brucella) and is used in the Rose Bengal test. The dye can be used in the Rose Bengal test to quantify the excretory performance of the liver. The dye rose bengal is also used in the diagnosis of conjunctival and eyelid diseases. It is a dry dye for the preparation of a ready-to-use dye solution for professional users.

Sample material and sample preparation

Sampling may only be carried out by qualified personnel. All samples must be processed with state-of-the-art technology. All samples must be clearly labelled.

Sample material: Blood cultures (Brucella homogenate)

Test principle

The Rose Bengal antigen reaction is used for the serological diagnosis of brucellosis by IgG detection. The bacterial culture is stained directly with the rose bengal solution in buffered acidic medium (pH of 3.6-3.7) and, together with the buffered antigen, serves as a rapid agglutination reaction. In the case of positive bacteriological findings, adhesions/agglutinations of antigens on pathogens are discoloured by antibodies that are present.

Staining

The samples are brought to room temperature (18–30 °C) before use. To homogenise the suspension, the samples are shaken. The bacterial cultures are stained in solution with rose bengal. The serum and the buffered antigen are mixed in a ratio of 1:1. A positive reaction becomes evident if a low agglutination is recognisable. A complete lack of agglutination indicates a negative reaction. Any positive result should be confirmed by a further procedure.



Result

Agglutination reaction pink/red

Precautionary measures

When removing the product, care must be taken to avoid contamination of the storage vessel. Once the dye has been removed, it must not be returned to the canister. If turbidity or solids appear, discard the product. The product is intended for single use and must not be reused.

Storage and shelf life

Store the unopened containers in a dry place at 15 to 25 °C, avoiding direct sunlight.
The shelf life is 5 years. See also the best-before date (BBD) on the label. Once the containers have been opened, the shelf life corresponds to the best-before date, as long as the storage conditions are observed and the solution is handled properly.

Safety notice

If any serious incidents occur in connection with the product, please report them to the manufacturer and the national authority.

Literature

https://commerce.bio-rad.com/webroot/web/pdf/inserts/CDG/de/63231_881168_DE.pdf
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