

Information for the User

The agar medium 1,5% for identification of somatic antigens of *Salmonella*

Description

The solid agar medium is a medical device for *in vitro* use, which is used for identification of somatic antigens of *Salmonella*. It is a ready-to-use medium for multiplication of bacterial culture of *Salmonella*. This medium allows for serological identification of somatic antigens. Somatic antigens are identified in serological tests in *Salmonella* strains isolated on bacteriological media from samples taken from humans or from other materials.

Application

The agar medium contains components that allow for development of somatic antigens, what allows for preliminary serological identification of *Salmonella* strains. The medium is designed to test somatic antigens through slide agglutination assay.

The agar medium allows for obtaining smooth *Salmonella* colonies, what is noticed through bacterial growth on the Petri dish's surface. This medium is used in IMMUNOLAB and it has not happened yet that smooth *Salmonella* strain would not grow on plate's surface. This usually allows to determine the somatic antigens of *Salmonella*.

Composition

The composition of agar medium 1,5% for 500 ml:

Agar 7,5 g

Enriched broth 10,0 g

pH after dissolution $7,4 \pm 0,2$

Properties

Identification of *Salmonella* is based on determination of the antigenic structure of the tested strain. The test is based on the detection of somatic antigens "O" and flagellar antigens "H" in a slide agglutination assay with specific antisera. [Identification of flagellar antigens is possible only with the use of enriched semi-solid medium, such as designed semi-solid medium by Garda.]

Medium Preparation

Package contents suspend in 500 ml of distilled water, mix and sterilize in an autoclave at a temperature. Of 121°C for 20 minutes. After cooling down of the medium to approx. 50°C pour in the Petri dishes - diameter of 10 cm (about 20 ml for 1 plate) or a plate/petri dish - diameter of 5 cm (approx. 10 ml for 1 plate). After the medium is cooled down and solidified inoculate *Salmonella* as detailed below. Petri dishes with solidified medium can be used on the same day after being prepared as well as during the following week after appropriate storage (temperature approx. 4°C). **ATTENTION! – PETRI DISHES WITH SOLIDIFIED MEDIUM CAN BE DRIED.**

Performance of the test

After isolation of tested strain of bacteria, it is the best to choose one smooth colony and inoculate it on the surface of the agar medium 1,5% (using f.e. wire loop) in order to multiply tested bacteria. After 24 hours of incubation at 37°C, bacteria should grow on medium surface. For somatic antigens identification collect bacteria from any place of the grown medium and mix with a drop of selected antiserum on a glass slide. Within 30 seconds to 1 minute after a slight swinging there should occur little lumps/clumps of bacteria joined by antibodies on the surface of the drop. [Interpretation of results is described in the instruction for use of Set of Antiserum for the identification of *Salmonella* produced by the Research and Development Department of *Salmonella* Center "IMMUNOLAB" Ltd.]

The content of the package unit

1 package contains 17,5 g of the medium and is designed to prepare 500 ml of the agar medium 1,5%.

Storage conditions and precautions

The medium should be stored at room temperature in a dry and dark place. **DO NOT INSERT INTO REFRIGERATOR AND DO NOT FREEZE!**

Do not use after the expiry date stated on the package.

The product is intended only for laboratory use and is not suitable for consumption.

The medium is not injurious to health.

Manufacturer

Research and Development Department of *Salmonella* Center "IMMUNOLAB" Ltd.

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