

BioReference Strains

Packaging units:

- 5 pastilles
- 1 pastille

(individually packaged)

Description:

BioReference pastilles are microbiological reference material. They are produced by the department of water and environment of the Institut Pasteur de Lille in France by a patented procedure. They are supplied since 1996. The pastilles contain a defined amount of microorganisms. Depending on the strain, $10^2 - 10^6$ CFU/pastille are embedded in a soluble matrix. After freezing and dehydration they are shaped like white tablets for easy resolution and usage.

In the pastilles the water activity (a_w -value) is reduced below 0.9, whereby the microorganisms don't proliferate in particular during transport. Moreover, cell damage caused by repeated freeze thaw cycles is avoided. (Stability: 3-5 days).

Advantages of the BioReference pastilles:

- reliable
- easy to use
- strains are traceable to international culture collections (ATCC, CCM,...)
- cost effective

Who should use them?

- Water and food control laboratories
- Producers of drinking water and food
- Private laboratories

Microbiological applications:

- internal quality control: Validation, verification and improvement of testing methods
- external quality control: as standard material for inter-laboratory proficiency tests (round robin tests)

Product Form:

White pastilles

Instructions:

Before use the pastilles have to be treated as described below.

Preparing the BioReference working solution:

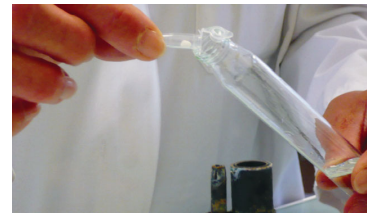
The diluent recommended for preparation of the working solution is tryptone salt solution (10 g tryptone + 5 g sodium chloride).

Information about the tryptone salt solution used for validation of the pastilles (supplier,

references, etc.) can be found on the batch validation certificate.

The tryptone salt solution has to be prepared and sterilised according to the manufacturer's instructions (check the pH!) and stored in the dark at 5 ± 3 °C in tightly closed tubes or bottles. Bring to room temperature before use.

- Using sterile forceps, remove the pastille from the vial and transfer it to the tryptone salt solution or just dump it out of the tube into the solution:



- Let the pastille dissolve for 3 minutes in the tryptone salt solution without shaking.
- Vortex for 5 seconds – the solution is now ready for use.

Ideally, this working solution should be used within 15 minutes to avoid proliferation of the organisms. This time can be prolonged to 1 hour by storage on ice (except for *Pseudomonas spec.*).

Use of the BioReference working solution

Carry out the analysis as for any other sample.

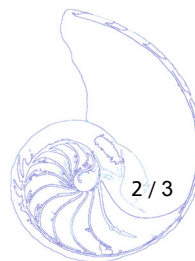
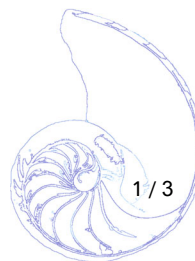
Depending on the method, varying sample volumes may be used.

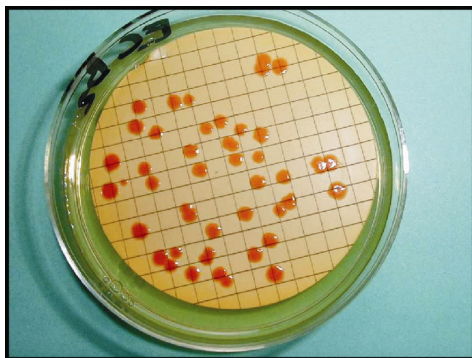


Membrane filtration method



Incubation





E. coli colonies

Interpretation of the results

On the certificate of analysis the mean germ content of the working solution is indicated (within the confidence intervals of 95-99 %). This value is subject to the use of the same conditions mentioned in the certificate of analysis (dilution volume, sample volume, media, method...). In case of an altered analytical condition a correction of this value may be necessary.

The result may be shown by counting E. coli colonies on TTC Tergitol medium (see above).

Note:

Not tested or intended for use in clinical tests (IVD-Guideline). Not tested or certified for human use (AMG, MPG).

MicroMol GmbH
Hedwigstr. 2-8
D-76199 Karlsruhe
phone: +49 721 94152-13
fax: +49 721 94152-14
e-mail: info@micromol.com
web: www.micromol.com

National and international regulation for the handling with microorganisms and microbiological waste have to be respected. For strains of the risk group (RG) 2 we need a copy of the permission for the handling of pathogens (e.g. according to § 44 Infektionsschutzgesetz IfSG). Please add to the first order or send via fax.

Storage and shelf life:

Immediately upon receipt, the pastilles should be stored at -24 °C.

The pastilles may be used until the expiration date (written on the tube-strip).

Tubes taken out of the freezer should be refrigerated as soon as possible -24 °C.

