

Product Information

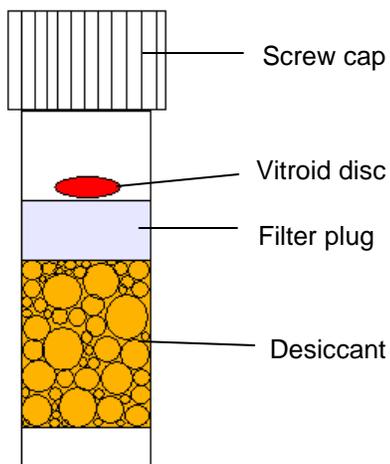
Vitroids™

Vitroids™ are Certified Microorganisms Standards (Certified Microbiological Reference Materials) which can be used as quantitative and qualitative control organisms, as they contain a certain number of colony forming units (cfu) per disc. The cfu range is starting at 30 cfu per disc and goes up to 100'000. The technology allows long-term conservation and renders the organisms resistant to temperature changes. Vitroids™ are very robust, efficient, reliable and cost-effective. They are intended to be used as daily internal quality control organisms. Additionally they are excellent for use in method development and validations, as starter cultures, for use in research studies and for educational purposes.

Packaging:

The discs are packed individually in vials or blister packages. The vials have a special screw-cap with seal and contain a desiccant at the bottom. The blister packs are accompanied by a desiccant pillow. The vials and the blister packs are packed in a mylar bag with a zip. Each batch is delivered together with a comprehensive Certificate of Analysis.

Pack 1 (Vial):



Pack 2 (Blisters):



Handling:

1. Take the tube or blister pack out of the freezer and let it stand for 5-10 minutes to reach room temperature. Do not refreeze, and use the disc(s) within one hour of transfer to ambient temperature.
2. Any solid or liquid medium or a rehydration buffer can be used. The disc can be rehydrated in as little as 100µl, or in larger volumes, e.g. 100 ml medium. It is also possible to add the disc to a medium used for pour plate techniques. Discs containing high numbers of cfu should be diluted in a buffer or medium prior to spreading on agar plates.
3. **Vial pack:** Open the vial and aseptically transfer the disc onto an agar plate or into a liquid by carefully inverting the vial or by using sterile forceps.

Blister pack: Carefully cut out the single cavity you need with a scissors and prepare one edge by peeling the aluminium foil a bit (not opening). Then the cavity is disinfected by using 70% ethanol. Afterwards the foil is carefully and completely separated under aseptic conditions, so that the disc remains in the cavity. Then the discs can be poured directly into a liquid or on a plate by inverting the cavity carefully. It is possible that

the discs sticks a bit on the plastic, then a carefully knocking can help. Alternatively it is possible to use sterile forceps.

4. Rehydration process: Leave at room temperature to re-hydrate (for 10 to 15 minutes) and ensure that the disc is completely dissolved. On **solid media**, the disc forms a droplet that can be spread with a sterile loop. In **liquid media**, the disc may sink or float (doesn't matter), there is no need to shake the tube to dissolve the disc, but mix thoroughly will help the Vitroids™ to dissolve. **Please note** if using a selective medium, the recovery will usually be lower than on a non-selective medium. Please **DO NOT REHYDRATE DIRECTLY IN DISTILLED WATER** as this will strongly affect the recovery rate. We recommend rehydration in a small volume of Maximum Recovery Diluent, Phosphate Buffered Saline or similar, before the entire volume is transferred to distilled water. Be aware that dilutions affect the cfu negatively.
5. Perform the tests and incubation of the Vitroids™ and the samples in accordance with routine enumeration procedures.

Reproducibility:

- Produced under ISO Guide 34
- Certified under ISO 17025
- Supplied with a comprehensive Certificate of Analysis reporting the number of colony forming units (cfu)
- Strains are derived from culture collections
- Between-disc reproducibility down to 4 % at levels of 100 cfu.

Stability:

The discs are very stable and have a minimum expiry date of one year stored at -20°C (in most cases 2 or 3 years). At this recommended storage temperature no change of the number of cfu will appear up to the expiry date. As Vitroids™ have a water soluble matrix, temperatures below -30°C may have a negative effect on the recovery of the organisms. The discs are stable at ambient temperatures for shipping. If a vial was opened the discs should be used within 30 days. The Vitroids™ are extremely sensitive to moisture.

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

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