



Product Specification

Product Name: **5-Bromo-5-nitro-1,3-dioxane (BND), 0,5% aqueous solution**

Product Code: **#BND-W**

Lot Number: 323532

Storage: room temperature (+18°C~+28°C). NOTE that at temperatures below 18°C BND may crystallize out of the saturated solution. DO NOT STORE this product at temperatures lower than 18°C!

Expiration date: 04/2025

Appearance: Transparent non viscous liquid

Odour: Weak, characteristic

pH: 5,5 - 6,5 (with NO buffer capacity)

Preservative/anti-microbial: 5-Bromo-5-nitro-1,3-dioxane, 5000 ppm

Description: #BND-W is essentially a saturated 0,5% solution of 5-Bromo-5-nitro-1,3-dioxane (BND) in the pure deionized water, 0.2 µm filtered. BND is known as a well proven and widely validated as non toxic and non hazardous broad spectrum microbicide giving dependable and universal anti-microbial (anti-bacterial, anti-fungi & anti-algae) protection to the diverse stable liquid IVD product formulations.

Recommended use as example of making V ml buffer preserved with e.g. 0,1% BND:

1. Pour into production beaker 1/5 V (gravimetrically measured as 1 ml ~ 1 g) of #BND-W.
2. Add 4/5 V of deionized water.
3. Add salts and/or other buffering reagents as per given buffer formula, mix, measure and adjust pH.
4. Filter through 0,2 µm filter unit.

This product is for *in vitro* research or further IVD manufacturing use only.