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TECHNICAL DATA SHEET 1031

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Paraformaldehyde EM Grade

Paraformaldehyde is a solid form of polymerized formaldehyde that can be used as a fixative after it is diluted in a buffer or water, heated to 60° C and adjusted to a pH of 6.9 with sodium hydroxide solution. The prepared formaldehyde can then be used for various research needs, such as a fixative for tissues as well as a disinfectant to kill bacteria and fungi.

PROCEDURE TO PREPARE 4% FORMALDEHYDE (1 LITER):

Use ventilated hood

1. In a large flask, add 800 mL of 1X PBS. While stirring, heat to approximately 60° C. *Take care that the solution does not boil.*
2. Add 40 g of paraformaldehyde powder to the heated PBS solution.
3. Add 1 N sodium hydroxide dropwise from a pipette until the solution clears.
4. After the paraformaldehyde is dissolved, cool solution and filter.
5. Add 1X PBS to the solution until the 1L volume is reached.
6. Check the pH, and adjust it with small amounts of HCl added dropwise to approximately pH 6.9.

The prepared solution of 4% formaldehyde can be aliquoted and frozen or stored at 2-8 °C for up to one month.

ORDERING INFORMATION

Catalog No.	Description	Size(s)
00380-250	Paraformaldehyde EM Grade	250 g
00380-1	Paraformaldehyde EM Grade	1 kg

RELATED PRODUCTS

25966-32	Sodium Hydroxide, 1N	32 oz
25952-16	Hydrochloric Acid, 1N	16 oz
25952-32	Hydrochloric Acid, 1N	32 oz
24081-5	Phosphate Buffered Saline (PBS), pH 7.4±0.2, 1X Powdered Blend	5 pouches
24081-10	Phosphate Buffered Saline (PBS), pH 7.4±0.2, 1X Powdered Blend	10 pouches

TO ORDER

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