

Technical Data Sheet

Paraformaldehyde - Glutaraldehyde Solution (Karnovsky's Fixative)

Using Paraformaldehyde-Glutaraldehyde Solution (Karnovsky's Fixative)

Kit contains

- 2 x 10 ml 16% Paraformaldehyde Solution
- 1 x 10 ml 50% EM Grade Glutaraldehyde
- 1 x 50 ml Sodium Phosphate Buffer .2M, pH 7.2

Mixture 1 (Original Karnovsky's Mixture)

16% Paraformaldehyde Solution	20 ml
50% Glutaraldehyde EM Grade	8 ml
0.2M Sodium Phosphate Buffer	25 ml
Distilled Water	25 ml

Final mixture is 78 ml with 5% Glutaraldehyde, 4% Formaldehyde in 0.064M buffer. This mixture is extremely hypertonic, with an osmolarity of more than 2000m OSM .

Mixture 2

A lower concentration of Glutaraldehyde and Formaldehyde especially used for vascular perfusion.

16% Paraformaldehyde Solution	13 ml
50% Glutaraldehyde EM Grade	5 ml
0.2M Sodium Phosphate Buffer	50 ml
Distilled Water	32 ml

Final mixture is 2% Paraformaldehyde, 2.5% Glutaraldehyde and 0.1M Buffer. If necessary, the osmolarity can be adjusted by adding sucrose to NaCl. The pH may also need to be adjusted to your desirable point. This mixture is the most effective general fixative for both plant and animal specimens.

Product Information

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