PLP-Fixative (a.k.a. “Nakane’s”):

McLean & Nakane (1974)

Use: L-Lysine monohydrochloride Sigma L-5626 MW=182.6
    Sodium (meta)periodate INaO₄ (also: NaIO₄) Sigma S-1878 MW=213.9
    Na₂HPO₄
    NaH₂PO₄

Final concentrations:
    3% PFA
    75 mM L-Lysine
    10 mM INaO₄
    0.1 M phosphate buffer

To make 100 mL fresh on day of use:

    50 mL 0.2 M phosphate buffer pH 7.4 (from stock A+B)
    32 mL distilled water
    18 mL of 16% PFA
    1.369 g L- Lysine
    0.214 g INaO₄

Check pH; shouldn’t be too far from 7.4

adapted from:

McLean IW, Nakane PK.
Periodate-lysine-paraformaldehyde fixative. A new fixation for
immunoelectron microscopy.
J Histochem Cytochem 1974; 22:1077-108