

Thermo Scientific Shandon Glyo-Fixx Ready-To-Use and Concentrate Instructions for Use

For in vitro diagnostic use.  
For fixation of pathology specimens.

Thermo Scientific™ Shandon™ Glyo-Fixx™ is formulated for use as a histological fixative, to replace formalin and zinc formalin for routine specimens as well as those intended for immunohistochemical or special staining procedures. It is also effective as a secondary fixative after unbuffered or buffered formalin or zinc formalin. Glyo-Fixx is entirely compatible with other common fixatives; phosphate and zinc salts are stable in Glyo-Fixx and will not precipitate.

The active ingredient in Glyo-Fixx is glyoxal, a two-carbon dialdehyde that fixes tissues by binding to macromolecules having methyl, amide, amine and hydroxyl groups. While some cross-linking may occur, the linkages are longer than with formaldehyde and immunoreactivity of tissue antigens is not impaired. Therefore epitope enhancement procedures such as enzyme digestion and heat treatment are often not necessary for tissues fixed in Glyo-Fixx (initial fixation in formalin without zinc is not recommended for samples intended for immunohistochemistry; secondary fixation in Glyo-Fixx will not reverse the effects of formalin).

There is not enough alcohol in Glyo-Fixx to have an alcoholic fixative effect. The alcohol content in ready-to-use Glyo-Fixx serves only to increase the effect of glyoxal. If you need an alcoholic fixative, Glyo-Fixx Concentrate may be diluted with alcohol (see Instructions for Use).

Storage

Store at room temperature. Keep container tightly closed when not in use.  
Store in a flammable liquid storage area.

Instructions For Use

- 1. Glyo-Fixx Ready-to-Use is to be used full strength.
- 2. Glyo-Fixx Concentrate needs to be diluted.
  - a. For regular (non-alcoholic) Glyo-Fixx, mix:
    - 1 gallon (3.8 liters) Glyo-Fixx Concentrate
    - 11.6 liters of deionized or distilled water
    - 3.5 liters of (100%) ethanol or reagent alcohol

**Warning:** DO NOT USE ISOPROPANOL.

- b. To make alcoholic Glyo-Fixx, mix:
    - 1 gallon (3.8 liters) Glyo-Fixx Concentrate
    - 7.7 liters of deionized or distilled water
    - 7.4 liters of (100%) ethanol or reagent alcohol

**Warning:** DO NOT USE ISOPROPANOL.

- 3. Small specimens, such as needle biopsies, should be fixed for at least 4 hours in Glyo-Fixx. General surgical specimens require at least 6 hours after grossing, and larger specimens require longer periods.
- 4. For optimal results, use Glyo-Fixx for initial tissue fixation, for holding specimens after grossing, and in the first two stations on the tissue processor. To help process fatty specimens such as colon and breast, use alcoholic Glyo-Fixx in station 2 of the tissue processor.
- 5. Specimens may remain in Glyo-Fixx for several weeks without detriment to staining or immunoreactivity.

Warnings and Precautions

For in vitro diagnostic use.  
**Warning:** Flammable

See Safety Data Sheets for warnings and precautions, as well as EUH code definitions.  
See container label for warnings and precautions.

Order Information

Product	Size	Qty.	REF
Glyo-Fixx Ready-to-Use	19 L	Ea.	6764260
Glyo-Fixx Ready-to-Use	3.8 L	Ea.	6764262
Glyo-Fixx Concentrate	3.8 L	Ea.	6764265
Glyo-Fixx Ready-to-Use, pre-filled cups	20 mL filled to 10 mL	180/cs.	9990920
Glyo-Fixx Ready-to-Use, pre-filled cups	60 mL filled to 30 mL	125/cs.	9990924
Glyo-Fixx Ready-to-Use, pre-filled cups	90 mL filled to 45 mL	125/cs.	9990926
Glyo-Fixx Ready-to-Use, pre-filled cups	120 mL filled to 60 mL	125/cs.	9990928

