



Xylene Alternative Intermedia

ROTI®Histol (Art. No. 6640)

Characteristics

ROTI®Histol is an organic solvent and consists of 96 - 98% limonene, a terpene with a characteristic smell of lemon or orange, manufactured from untreated orange peel. **In contrary to xylene the vapours of ROTI®Histol are not harmful.**

ROTI®Histol is flammable (flp 50 °C), therefore it should not be used near open flame. It can be mixed with IPA, butanol, ethanol and all standard embedding media. As ROTI®Histol has a strong degreasing effect, contact with skin and eyes should be avoided.

Application

ROTI®Histol can be used like xylene for

- **paraffin-embedding**
- **dewaxing**
- **clearing prior to cover slipping with hydrophobic mounting media**

Treating with ROTI®Histol prevents tissue samples from hardening and brittleness.

After cover slipping ROTI®Histol evaporates more slowly than xylene, therefore, the samples take more time to dry thoroughly. ROTI®Histol produces **excellent results with ROTI®Histokitt mounting medium (Art. No. 6638)**. But it is also possible to use other xylene-based mounting media.

ROTI®Histol is appropriate to immunohistochemical assays (e.g. to work with antisera and monoclonal antibodies).

When coming in contact with air, ROTI®Histol has a tendency to autoxidation. Thus it should not be used regularly in automates, it might cause deposits in tubes. For application in automates we recommend the xylene alternative ROTICLEAR® (Art. No. A538).

ROTI®Histol is **particularly suitable for all histological hand work** which usually exposes the user to solvent vapours in high concentrations.

Storage

ROTI®Histol should be stored **in tightly closed glass bottles**. We do not recommend long-term storing in plastic bottles, for plastics are non-resistant to ROTI®Histol.



Well advised with Roth.

Technical Info

ROTICLEAR® (Art.-No. A538)

Characteristics

ROTICLEAR® is an organic solvent consisting of different hydrocarbons - similar to petrol. It is **nearly free from aromatic compounds (< 0.5%)**. For it is flammable (flp >23 °C), it should not be used near open flame.

ROTICLEAR® has only **a slight inherent smell** and can be mixed with IPA, butanol, ethanol and acetone.

It evaporates easily. **The vapours are - in contrary to xylene - not harmful**. Nevertheless, we recommend working in a fume cupboard, because high concentrations of vapour can cause drowsiness. Like most solvents ROTICLEAR® has a strong degreasing effect, therefore, contact with skin and eyes should be avoided.

It is totally non-polar and does not absorb water.

Application

ROTICLEAR® can be used like xylene

- **for dewaxing histological sections**
- **as a clearing agent**
 - **during paraffin-embedding**
 - **prior to cover slipping** with hydrophobic mounting media

ROTICLEAR® produces non-sticky cuts and, due to a short evaporation period, enables fast and effective working.

ROTICLEAR® **can be used in automates** without any difficulties. The absorption capacity for paraffin is even better than that known from xylene. Therefore, water baths for removing the paraffin need not to be changed so frequently.

ROTI®Mount (Art. No. HP68) is an appropriate **mounting medium**. You can start cover slipping directly after clearing with ROTICLEAR®.

ROTICLEAR® is suitable for immunohistochemical assays (e.g. for working with antisera and monoclonal antibodies).

Storage

Store ROTICLEAR® **in tightly closed glass bottles** to avoid evaporation. It does not cause harm to plastics

Additional safety information to these products you can find in our current catalogue and on www.carlroth.com

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