



## 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](http://www.carlroth.com)

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