

Definition

Molpure ITLC™ (Instant Thin Layer Chromatography) papers are composed of a glass microfiber glass membrane impregnated with a porous silica gel (SG) or polysilica acid (SA) gel adsorbent.

Molpure ITLC™ media are particularly suited for radiochemical quality control, where fast and efficient separations are essential

Guidelines for use

1. Keep ITLC sheets or strips in a dry, cool place.

Note: Exposure to high humidity or keeping product in hand outside the packaging box for a long time require heat activation for optimal performance.

2. Add required mobile phase into a developing chamber to give about 10 mm-deep pool at the bottom and then close the lid.

Note: Saturation of the chamber has a significant impact on the separation profile.

3. Spot the ITLC strip with 3-5 μL of sample using a suitable pipette on one side of the strip.
4. Immediately develop the chromatogram by placing the strip in the developing chamber, with the bottom edge immersed in the mobile phase.
5. Close the chamber lid and proceed until the mobile phase reaches the solvent front line.
6. Remove the strip from developing chamber and allow to air dry or stream of warm air.
7. Examine the strip by any of the approved methods for the compounds of interest.

Features

- Proprietary GMF (Glass Microfiber) membrane
- Silica Gel (**SG**) or Polysilica Acid gel (**SA**) Impregnated
- Good detection sensitivity
- Reproducible Rfs
- Thin (~0.3-0.4 mm)
- Average micron retention 1 μm
- Fast and accurate
- Easy to handle / resistant to breakage.
- Easy to cut with scissors
- Good heat stability
- Can be used with most solvents and mobile phases
- Highly versatile usage

Typical QC data

Contains the relative separation between several dye markers (Rfs or retention factor) and the time for developing the solution.

Ordering Information

Layer Type	Sheet Format, cm	Product Name	Ordering No.	Pack Size
Glass Microfiber	20 x 20	SG TLC-100, ITLC Silica Gel (SG)	6577-TL100	25 sheets
Glass Microfiber	20 x 20	SA TLC-500, ITLC Polysilica Acid Gel (SA)	6577-TL500	25 sheets

Layer Type	Strip Format, cm	Product Name	Ordering No.	Pack Size
Glass Microfiber	1 x 8	SG TLC-100, ITLC Silica Gel (SG)	6577-TL100.1	100 strips
Glass Microfiber	1 x 8	SA TLC-500, ITLC Polysilica Acid Gel (SA)	6577-TL500.1	100 strips