

Preparative layer plates (PLC)

For enrichment of target analytes in mg quantities and sample clean-up

Preparative Thin Layer Plates (PLC) allow the separation of mg up to gram samples using up to 2 mm thick layers. PLC plates are based on the same proven Merck Millipore silica binder technology as analytical TLC plates. Merck Millipore's preparative plates are available with layers of silica gel, RP-18-modified silica or aluminium oxide in several layer thicknesses, ranging from 0.5 mm to 2 mm with or without fluorescent indicator.

In PLC, samples are typically applied as a band across the whole width of the plate and substances are visualised almost exclusively by UV detection. The substance can be isolated by extraction after the spot has been scraped from the layer. Just as in analytical TLC, PLC plates with concentration zone highly facilitate sample application.

PLC plates are highly suitable for a variety of preparative applications including: Cleaning and enrichment of synthetic reaction mixtures, natural products, plant extracts and biotechnological products.

Ordering information – PLC silica gel 60, glass backed

Product	Ordering No.	Format [cm]	Layer thickness	Contents of one package
PLC silica gel 60	1.13894.0001	20 x 20	0.5 mm	20 plates
	1.05745.0001	20 x 20	2 mm	12 plates
PLC silica gel 60 F ₂₅₄	1.05744.0001	20 x 20	0.5 mm	20 plates
	1.13895.0001	20 x 20	1 mm	15 plates
	1.05717.0001	20 x 20	2 mm	12 plates
PLC silica gel 60 F ₂₅₄ + F ₃₆₆	1.05637.0001	20 x 20	2 mm	12 plates

F₂₅₄: Green fluorescent indicator

Ordering information – PLC RP-modified silica gel 60, glass backed

Product	Ordering No.	Format [cm]	Layer thickness	Contents of one package
PLC silica gel 60 RP-18 F _{254s}	1.05434.0001	20 x 20	1 mm	15 plates

F_{254s}: Blue fluorescent indicator

Ordering information – PLC aluminium oxide 60, glass backed

Product	Ordering No.	Format [cm]	Layer thickness	Contents of one package
PLC aluminium oxide 60 F ₂₅₄	1.05788.0001	20 x 20	1.5 mm	12 plates

F₂₅₄: Green fluorescent indicator

Ordering information – PLC aluminium oxide 150, glass backed

Product	Ordering No.	Format [cm]	Layer thickness	Contents of one package
PLC aluminium oxides 150 F ₂₅₄	1.05726.0001	20 x 20	1.5 mm	12 plates

F₂₅₄: Green fluorescent indicator