

Classical silica TLC plates (TLC)

Ordering information – TLC silica gel 60, plastic backed

Product	Ordering No.	Format [cm]	Contents of one package
Silica gel 60	1.05748.0001	20 x 20	25 sheets
Silica gel 60 F ₂₅₄	1.05735.0001	20 x 20	25 sheets
	1.05750.0001	4 x 8	50 sheets
	1.05749.0001	500 x 20	1 roll

Layer thickness: 200 µm | F₂₅₄: Green fluorescent indicator

Applications of classical silica TLC

Unmodified silica gel covers more than 80 % of Thin Layer Chromatography applications for both adsorption- and partition Thin Layer Chromatography. It allows separation of a large range of different substances such as aflatoxins, alkaloids, anabolics, benzodiazepines, carbohydrates, fatty acids, glycosides, lipids, mycotoxins, nucleotides, peptides, pesticides, steroids, sulfonamides, surfactants, tetracyclines and many others making it suitable for:

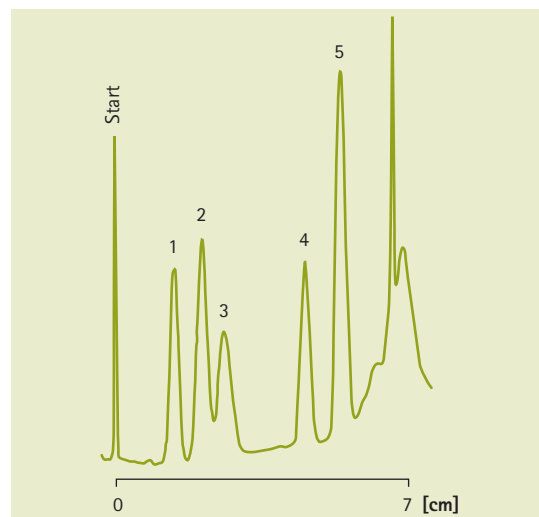
- In-process control of drugs
- Purity checking of synthesis steps
- Identity testing of pharmaceutical compounds



Merck Millipore TLC plates deliver highly reproducible sharp bands over the whole plate as demonstrated by the parallel separation of a lipophilic dye mixture on a silica gel 60 classical TLC plate

Analysis of a sulfonamide mixture on TLC silica gel 60

Sample	1. Sulfadiazine 2. Sulfamerazine 3. Sulfisoxalozole 4. Sulfapyridine 5. Sulfanilamide (all 0.1 %)
Sample volume	0.75 µL
Mobile phase	Ethyl acetate / methanol / ammonia solution 25 % (60/20/2 (v/v/v))
Detection	UV 254 nm (TLC/HPTLC Scanner 2/CAMAG)



Analysis of a sulfonamide mixture on a TLC silica gel 60 reveals clear separation of five different antibacterial drugs.