Cellulose TLC and HPTLC

Ordering information – HPTLC cellulose, glass backed

Product	Ordering No.	Format [cm]	Contents of one package
HPTLC cellulose	1.05786.0001	20 x 10	50 plates
	1.05787.0001	10 x 10	25 plates
HPTLC cellulose F	1.15036.0001	20 x 10	50 plates
	1.15035.0001	10 x 10	25 plates

F: Fluorescence indicator with excitation wavelength 254/366 nm

Ordering information – HPTLC cellulose, aluminium backed

| Product	Ordering No.	Format [cm]	Contents of one package
HPTLC cellulose	1.16092.0001	20 x 20	25 sheets

Layer thickness: 100 µm

Application of cellulose TLC and HPTLC

Typical applications of cellulose include the analysis of amino acids, carbohydrates, phosphates, nucleic acids and nucleic acids derivatives.

- Detection of abnormal increases of amino acids in clinical laboratories
- 2-dimensional separations such as amino acid "fingerprints"
- Metabolic studies

Separation of oligo–nucleotides

Sample	
Sample	1. $(NaPO_3)_3$
	2. $Na_5P_3O_{10}$
	3. $Na_4P_2O_7$
	4. Na_2HPO_4
Sample volume	250 nl
Mobile phase	dioxane sol. 160 g TCA, 8 mL 25 % ammonia in 1 L water; 70/30
Migration distance	7 cm
Detection	586 nm (TLC/HPTLC Scanner, Camag)
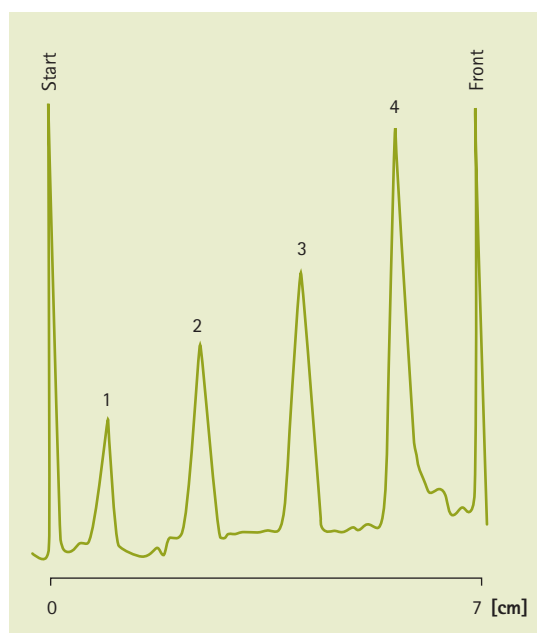
HPTLC cellulose is highly suited to separate polar compounds as demonstrated by the separation of phosphates