

Alox G P A aluminum oxide layers

🔧 Technical characteristics

- Aluminum oxide, mean pore size 60 Å, specific surface (BET) ~ 200 m²/g
- Inert organic binder
- Indicator: manganese-activated zinc silicate

✅ Recommended application

- Terpenes, alkaloids, steroids, aliphatic and aromatic compounds
- We recommend to activate aluminum oxide layers before use by heating 10 minutes at 120 °C

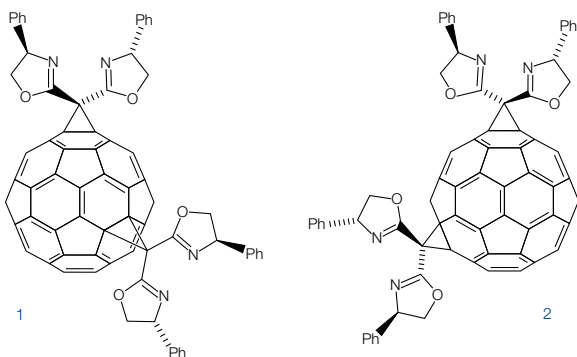
Separation of bisadducts of fullerenes

MN Appl. No. 401930

F. Djojo, A. Hirsch, Chem. Eur. J. 4 (1998), 344–356

Layer: ALUGRAM® Alox N/UV₂₅₄
 Eluent: toluene – ethyl acetate (95:5, v/v)
 Detection: UV, 254 nm

Compound	R _f values
Bis[bis(4-phenyloxazolin)methane]fullerene 1	0.14
Bis[bis(4-phenyloxazolin)methane]fullerene 2	0.26



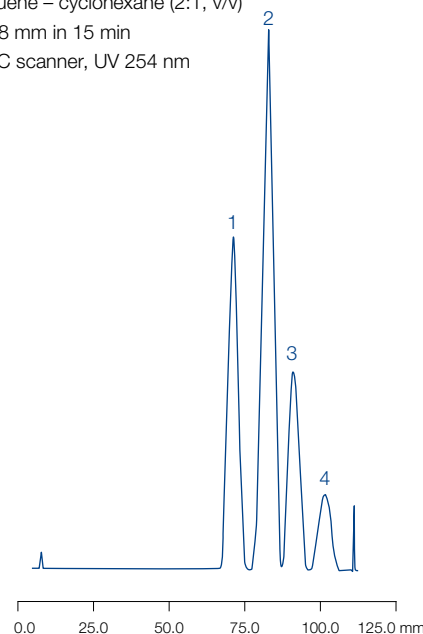
Separation of lipophilic dyes

MN Appl. No. 403010

Layer: Alox-25 UV₂₅₄
 Sample volume: 1000 nL
 Eluent: toluene – cyclohexane (2:1, v/v)
 Migration distance: 108 mm in 15 min
 Detection: TLC scanner, UV 254 nm

Peaks:

1. Indophenol
2. Sudan red G
3. Sudan blue II
4. Butter yellow



Ordering information

Plate size [cm]	4 x 8	5 x 20	20 x 20	Thickness of layer	Fluorescent indicator
Glass plates					
Pack of [plates]		100	25		
Alox-25 UV ₂₅₄		807021	807023	0.25 mm	UV ₂₅₄
Pack of [plates] (preparative TLC)					
Alox-100 UV ₂₅₄			807033	1.00 mm	UV ₂₅₄
POLYGRAM® polyester sheets					
Pack of [plates]	50	50	25		
Alox N/UV ₂₅₄	802021	802022	802023	0.20 mm	UV ₂₅₄
ALUGRAM® aluminum sheets					
Pack of [plates]		50	25		
Alox N/UV ₂₅₄		818024	818023	0.20 mm	UV ₂₅₄

Further application examples can be found online in our application database at www.mn-net.com/apps


Cellulose MN 300 G P A native fibrous cellulose layers

✔ **Technical characteristics**

- Fiber length (95 %) 2–20 µm, average degree of polymerization 400–500, specific surface acc. to Blaine 15 000 cm²/g, ≤ 20 ppm Fe, 6 ppm Cu, 7 ppm P; CH₂Cl₂- extract ≤ 0.25 %; residue on ignition at 850 °C ≤ 1500 ppm

✔ **Recommended application**

- Partition chromatography of polar substances such as amino acids, carboxylic acids or carbohydrates

Ordering information

Plate size [cm]	4 x 8	5 x 20	20 x 20	Thickness of layer	Fluorescent indicator
Glass plates					
Pack of [plates]			25		
CEL 300-10			808013	0.10 mm	–
CEL 300-10 UV ₂₅₄			808023	0.10 mm	UV ₂₅₄
CEL 300-25			808033	0.25 mm	–
CEL 300-25 UV ₂₅₄			808043	0.25 mm	UV ₂₅₄
Pack of [plates] (preparative TLC)			20		
CEL 300-50			808053	0.50 mm	–
CEL 300-50 UV ₂₅₄			808063	0.50 mm	UV ₂₅₄
POLYGRAM® polyester sheets					
Pack of [plates]	50	50	25		
CEL 300	801011		801013	0.10 mm	–
CEL 300 UV ₂₅₄		801022	801023	0.10 mm	UV ₂₅₄
ALUGRAM® aluminum sheets					
Pack of [plates]	50	50	25		
CEL 300	818155		818153	0.10 mm	–
CEL 300 UV ₂₅₄		818157	818156	0.10 mm	UV ₂₅₄

Cellulose MN 400 (AVICEL®) G P microcrystalline cellulose layers

✔ **Technical characteristics**

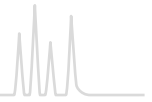
- Prepared by hydrolysis of high purity cellulose with HCl, average degree of polymerization 40–200

✔ **Recommended application**

- Carboxylic acids, lower alcohols, urea and purine derivatives

Ordering information

Plate size [cm]	10 x 20	20 x 20	Thickness of layer	Fluorescent indicator
Pack of [plates]	50	25		
Glass plates				
CEL 400-10	808072	808073	0.10 mm	–
POLYGRAM® polyester sheets				
CEL 400		801113	0.10 mm	–
CEL 400 UV ₂₅₄		801123	0.10 mm	UV ₂₅₄



Cellulose MN 300 PEI ^P PEI-impregnated cellulose ion exchange layers

Technical characteristics

- Fibrous cellulose impregnated with polyethyleneimine

Recommended application

- Analysis of nucleic acids, and of mutagenic substances with the ³²P postlabelling procedure

Ordering information

Plate size [cm]	20 x 20	Thickness of layer	Fluorescent indicator
Pack of [plates]	25		

POLYGRAM[®] polyester sheets

CEL 300 PEI	801053	0.10 mm	–
CEL 300 PEI/UV ₂₅₄	801063	0.10 mm	UV ₂₅₄

Cellulose MN 300 AC ^P acetylated cellulose layers

Technical characteristics

- Fibrous cellulose with 10 % content of acetylated cellulose for reversed phase chromatography

Recommended application

- Reversed phase chromatography

Ordering information

Plate size [cm]	Acetyl content	20 x 20	Thickness of layer	Fluorescent indicator
Pack of [plates]		25		

POLYGRAM[®] polyester sheets

CEL 300 AC-10 %	10 %	801033	0.10 mm	–
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Polyamid-6 ^P ε-polycaprolactame layers

Technical characteristics

- Polyamide 6 = nylon 6 = perlon = ε-aminopolycaprolactame
- Separation mechanism based on hydrogen bonds to amide groups of the polymer matrix as well as on ionic, dipole and electron donor-acceptor interactions

Recommended application

- Natural compounds, phenols, carboxylic acids, aromatic nitro compounds and especially amino acids

Ordering information

Plate size [cm]	5 x 20	20 x 20	Thickness of layer	Fluorescent indicator
Pack of [plates]	50	25		

POLYGRAM[®] polyester sheets

POLYAMID-6	803012	803013	0.10 mm	–
POLYAMID-6 UV ₂₅₄	803022	803023	0.10 mm	UV ₂₅₄

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