

MACHEREY-NAGEL Chroma Classics



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Chromatography



From sample preparation to subsequent analysis



Everything for successful work in your chromatography lab!

MACHEREY-NAGEL
www.mn-net.com



Chroma Classics

Solid phase extraction (SPE)

- Concentration and clean-up of your target compounds
- CHROMABOND® and CHROMAFIX® columns and cartridges for more than 30 years
- CHROMABOND® Flash columns, packing material and accessories



SPE columns	Phase description	3 mL 200 mg	6 mL 500 mg
CHROMABOND® SiOH	Silica based hydrophilic phase	730214	730070
CHROMABOND® C ₁₈ ec	Silica based hydrophobic phase	730012	730014
CHROMABOND® HR-X (85 µm)	Polymer based hydrophobic phase	730931	730939
CHROMABOND® HLB (60 µm)	Polymer based hydrophobic phase with additional polar selectivity	730924	730927
SPE Accessories			REF
Vacuum manifold for up to 12 columns			730150
CHROMABOND® Flash columns		15 g	40 g
CHROMABOND® Flash RS SiOH 40–63 µm		732801	732803
			732807

Packs of 30; 730214, 730012, 730168 = packs of 50; 732801 = pack of 20; 732803 = pack of 15; 732807 = pack of 4

QuEChERS

- Determination of pesticides in food samples
- CHROMABOND® Diamino with Primary and Secondary Amine functions (PSA) removes polar compounds
- Diverse clean-up mixes for different sample compositions



CHROMABOND® QuEChERS Mix	Method	Mix No.	REF	Content
Extraction and salting-out				
Citrate extraction mix	EN 15662	Mix I	730970	4000 mg MgSO ₄ , 1 g NaCl, 500 mg Na ₂ H citrate · 1.5 H ₂ O, 1000 mg Na ₃ citrate · 2 H ₂ O
Clean-up by dSPE				
Low fat content	EN 15662	Mix III	730972	900 mg MgSO ₄ , 150 mg CHROMABOND® Diamino
Moderate content of chlorophyll and carotenoids	EN 15662	Mix IV	730973	900 mg MgSO ₄ , 15 mg CHROMABOND® Carbon, 150 mg CHROMABOND® Diamino
Higher content of chlorophyll and carotenoids	EN 15662	Mix V	730975	900 mg MgSO ₄ , 45 mg CHROMABOND® Carbon, 150 mg CHROMABOND® Diamino
Higher fat content	EN 15662	Mix VI	730974	150 mg CHROMABOND® C ₁₈ ec, 900 mg MgSO ₄ , 150 mg CHROMABOND® Diamino

Packs of 50

MN application database

Find more than 4000 applications online at www.mn-net.com/apps



CHROMAFIL® syringe filters

- Robust and contaminant free syringe filters
- For clarification of liquid samples
- Protection of sensitive and expensive laboratory equipment





Membrane diameter	25 mm		13 mm		25 mm
	REF		REF		REF
CHROMAFIL® Xtra • Pore size 0.20 µm			Combi filter with 1.0 µm glass fiber prefilter		
PTFE-20/25	729207	PTFE-20/13	729208	GF/PTFE-20/25	729270
PET-20/25	729221	PET-20/13	729222	GF/PET-20/25	729032
PA-20/25	729212	PA-20/13	729248	GF/PA-20/25	729260
CHROMAFIL® Xtra • Pore size 0.45 µm			Combi filter with 1.0 µm glass fiber prefilter		
PTFE-45/25	729205	PTFE-45/13	729209	GF/PTFE-45/25	729271
PET-45/25	729220	PET-45/13	729223	GF/PET-45/25	729033
PA-45/25	729213	PA-45/13	729249	GF/PA-45/25	729261

Packs of 100; PTFE = polytetrafluoroethylene, PET = polyester, PA = polyamide (Nylon), GF = glass fiber

Vials and caps

- Safe handling of samples
- Large assortment - compatible with autosamplers of all major instrument manufacturers
- High quality vials, inserts and caps for HPLC, GC, IC and sample storage



1.5 mL vials and caps for autosampling		Volume	REF	REF	REF
label and scale			clear glass	amber glass	suitable closure*
Screw neck	N 9	1.5 mL	702283	702284	702287.1
Snap ring	N 11	1.5 mL	702713	702712	702710
Crimp neck	N 11	1.5 mL	702885	702892	70288
Inserts for 1.5 mL vials					
		0.1 mL	702818		
		0.2 mL	702813		
Vials and caps for environmental analysis					
Screw neck	N 24	40 mL	702023	702024	702058
Screw neck	N 24	20 mL	702021	702022	702058

Packs of 100; *with silicone/PTFE septa

TLC plates and sheets

- More than 40 years pioneering research work and experience in TLC
- Quick, easy and cost-efficient separations
- Screening applications and routine analysis



Format [cm]	Aluminum sheets	Polyester sheets	Glass plates
	ALUGRAM® Xtra-Sheets SIL G/UV ₂₅₄	POLYGRAM® sheets SIL G/UV ₂₅₄	TLC precoated plates SIL G-25/UV ₂₅₄
20 x 20, packs of 25	818333	805023	809023
4 x 8, packs of 50	818331	805021	
Accessories			REF
Simultaneous developing chamber for TLC, 20 x 20 cm			814019

Chroma Classics



HPLC columns

- NUCLEOSIL® – the original, one of the first spherical HPLC silicas
- NUCLEODUR® – professional solutions by high purity spherical silica
- NUCLEOSHELL® – highest efficiency with core-shell HPLC columns

HPLC columns	Modification	Particle size	ID	Length	REF EC column	REF suitable EC guard columns
NUCLEOSIL® 100-5 C ₁₈	octadecyl silica • USP L1	5 µm	4.6 mm	250 mm	720014.46	721074.30
NUCLEODUR® 100-5 C ₁₈ ec	octadecyl silica • USP L1	5 µm	4.6 mm	250 mm	760002.46	761932.30
NUCLEODUR® C ₁₈ Gravity	octadecyl silica • USP L1	5 µm	4.6 mm	250 mm	760101.46	761903.30
NUCLEOSHELL® RP 18	octadecyl silica • USP L1	5 µm	4.6 mm	250 mm	763157.46	763158.30
Accessories						REF
Column Protection System Guard Column Holder						718966

GC columns

- Highly inert and low-bleed OPTIMA® GC capillary columns
- GC columns for routine analysis and special separations
- More than 50 stationary phases



GC columns	USP	Composition	Length	ID	Film thickness	REF
OPTIMA® 1 MS	G1 / G2 / G38	100 % dimethylpolysiloxane	30 m	0.25 mm	0.25 µm	726205.30
OPTIMA® 5 MS	G27 / G36	5 % phenyl – 95 % methylpolysiloxane	30 m	0.25 mm	0.25 µm	726220.30
OPTIMA® WAX	G16	polyethylene glycol 20 000 Da	30 m	0.25 mm	0.25 µm	726600.30
OPTIMA® FFAP	G35	polyethylene glycol 2-nitroterephthalate	30 m	0.25 mm	0.25 µm	726116.30

Derivatization reagents	Description		Volume	REF
MSTFA	silylation	<i>N</i> -methyl- <i>N</i> -trimethylsilyl-trifluoroacetamide	20 x 1 mL	701270.201
BSTFA	silylation	<i>N,O</i> -bis-trimethylsilyl-trifluoroacetamide	20 x 1 mL	701220.201
TMSH, 0.2 M in MeOH	alkylation	Trimethylsulfonium hydroxide	20 x 1 mL	701520.201



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