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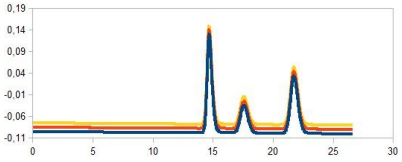
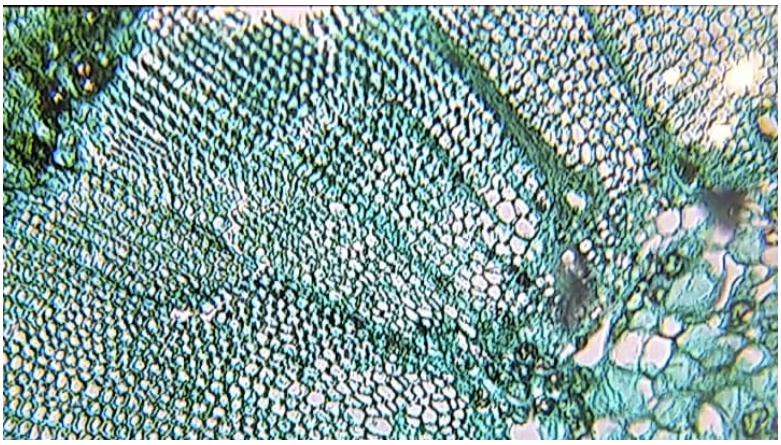
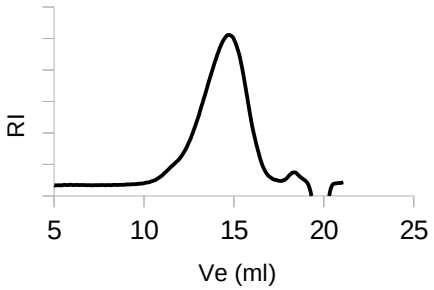
GPC / SEC / HPLC Columns

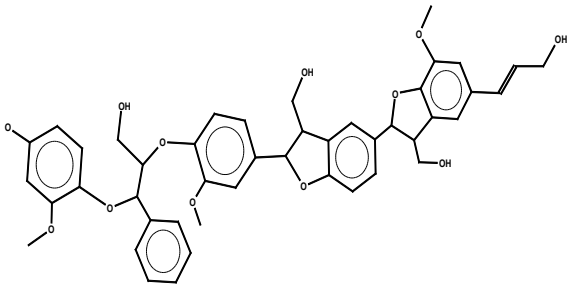
Made by AppliChrom GmbH

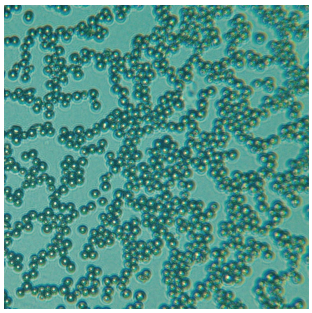


AppliChrom DMSO-Phil-P









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AppliChrom DMSO-Phil-P

Special GPC/SEC media for fast, accurate and robust GPC-analysis in DMSO

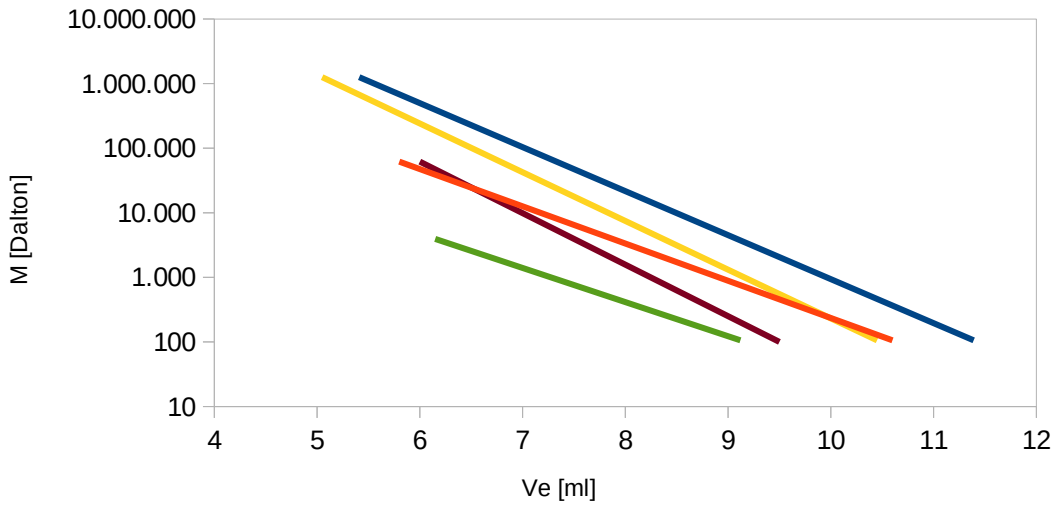
For GPC / SEC analysis in DMSO, examples:

- → amylose, amylopectin, starch
- → urea-formaldehyd resins (UF-resins)
- → melamin-urea-formaldehyd resins (MUF-resins)
- → lignins, humic substances, humic acids, coniferous wood bark essences
- → polysaccharide, polysaccharid derivatives
- → poly(N-isopropylacrylamid) PNIPA
- → poly-vinylpyridin
- → calibration: pullulan, dextran, polyvinylpyridin et al.

Advantages

- → optimized for DMSO-GPC applications
- → interactionfree pure GPC/SEC
- → easy, reliable and robust GPC/SEC-calibration by dextrans, pullulans et al.
- → low column bleeding for low detectornoise for improved lightscattering or viscosity detection
- → 12µ particle technology for low backpressure
- → large porevolume and optimized mass transfer for polymers giving optimized resolution
- → low costs caused by long livetime of column – result of combination of optimized proprietary particle and packingtechnology.

Measuring range of selected AppliChrom DMSO-Phil-P GPC/SEC-columns, 300x8mm, poresizes 100, 200, 250, 350, 400



Different pore sizes available

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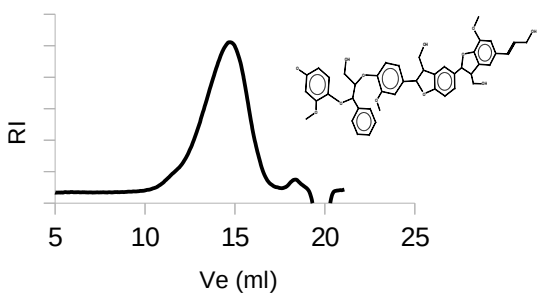
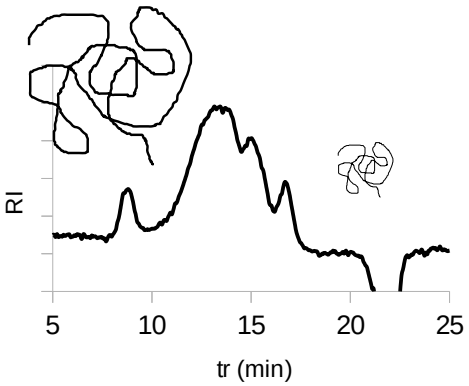


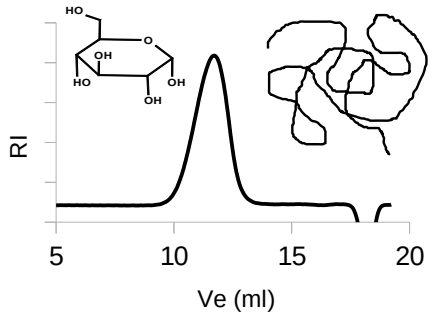
Analyte: **Lignin conifer bark extracts**

Column:	AppliChrom DMSO-Phil-P-250 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI



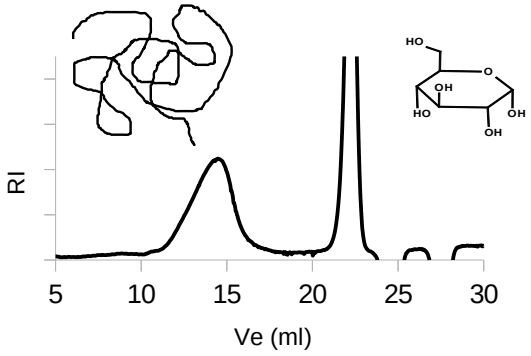
Analyte: **Spruce bark extract**

Column:	AppliChrom DMSO-Phil-P-250
Dimension:	2x 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI



Analyte: **Polysaccharide**
(M ca. 70 000Da)

Column:	AppliChrom DMSO-Phil-P-250 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI



Analyte: **Dextran 650**
Dextran from Leuconostoc spp.,
M = 450 000-650 000Da + fructose

Column:	AppliChrom DMSO-Phil-P-200 AppliChrom DMSO-Phil-P-250 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI

Many applications for DMSO

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AppliChrom DMSO-Phil-P

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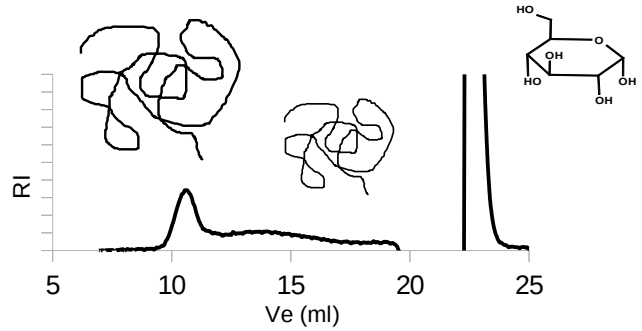
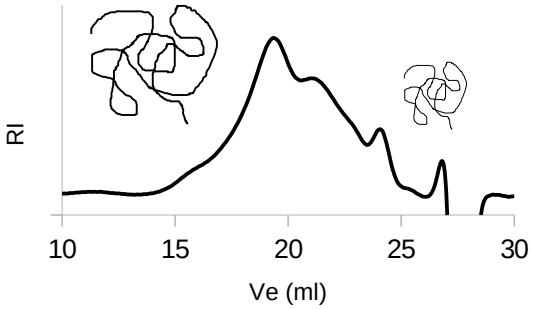


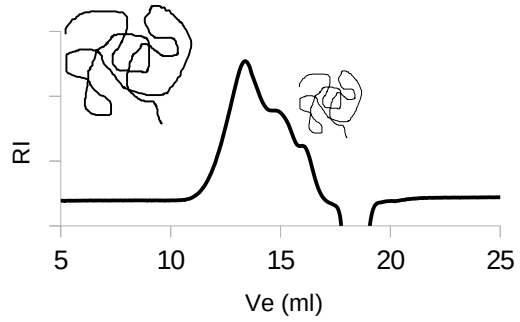
Analyte: **Pea starch**

Column:	AppliChrom DMSO-Phil-P-200 AppliChrom DMSO-Phil-P-250 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI



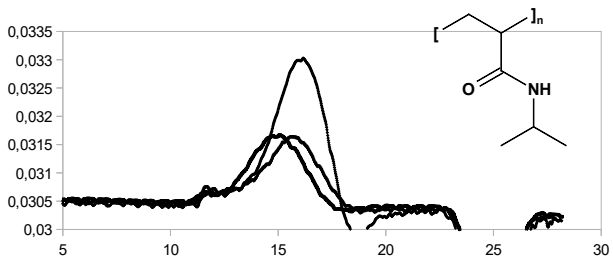
Analyte: **MUF-resin**
completely DMSO-soluble melamin-urea formaldehyd resin (MUF-resin)

Column:	AppliChrom DMSO-Phil-P-200 AppliChrom DMSO-Phil-P-250 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI
Injection:	50µl sample



Analyte: **UF-resin**
DMSO-soluble urea formaldehyd resin

Column:	AppliChrom DMSO-Phil-P-200 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI



Analyte: **Poly(N-isopropylacrylamide)**
Further denominations: PNIPA, PNIPAAm, NIPA, PNIPAA or PNIPAm.
CAS [25189-55-3], formula: $(C_6H_{11}NO)_n$

3 different PNIPA fractions

Column:	AppliChrom DMSO-Phil-P-300
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.5ml/min
Temperature:	80°C
Detection:	RI

DMSO – easy to handle

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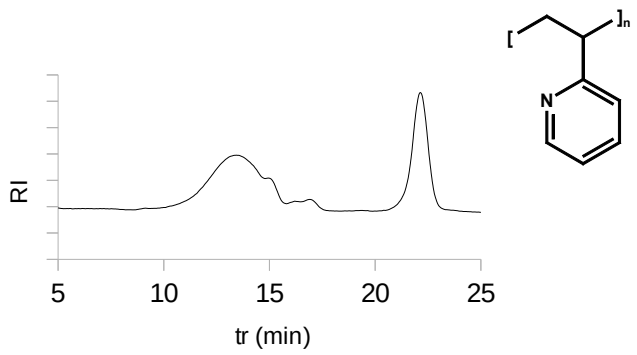
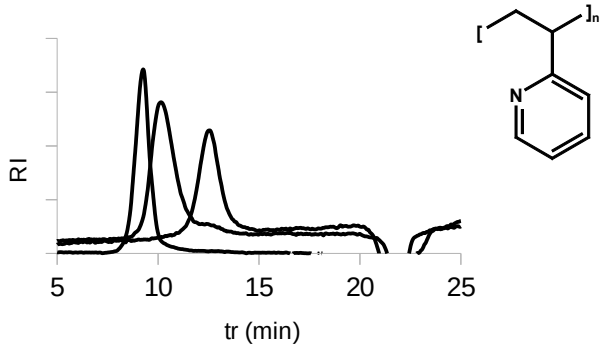


Analyte: **Polyvinylpyridine degradated**

Further denominations: CAS 25014-15-7, $(C_7H_7N)_n$
low molecular weight (oligomeric) polyvinylpyridin fraction

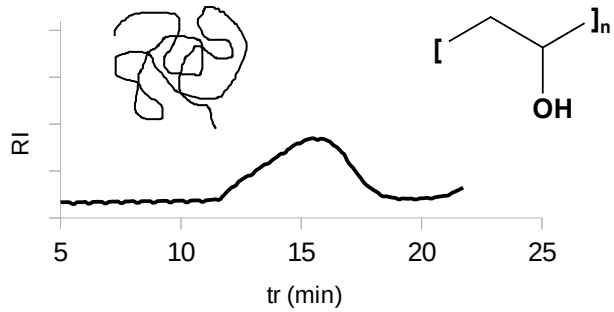
Column:	AppliChrom DMSO-Phil-P-250
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	50°C
Detection:	RI



Analyte: **Polyvinylpyridine fractions**

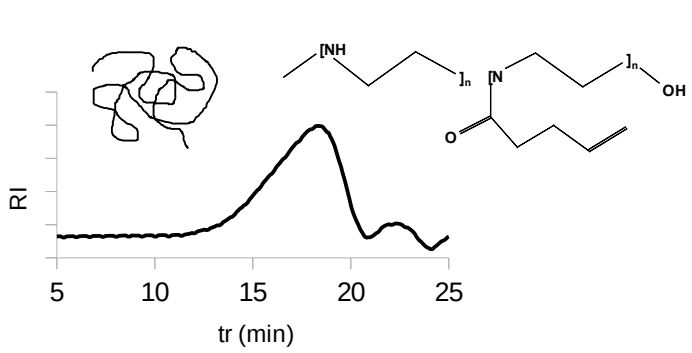
Further denominations: CAS 25014-15-7, $(C_7H_7N)_n$
75.7kDa, 20.9kDa, 3.2kDa
Superposition of 3 different polyvinylpyridin fractions

Column:	AppliChrom DMSO-Phil-P-250
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	50°C
Detection:	RI



Analyte: **Polyvinylalcohol M=22kDa**

Column:	AppliChrom DMSO-Phil-P-300
Dimension:	2x 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	50°C
Detection:	RI



Analyte: **Poly[2-(butenyl)2-oxazoline-co-ethylenimine]**
M = 50 000Da

Column:	AppliChrom DMSO-Phil-P-300
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	50°C
Detection:	RI

Robust applications

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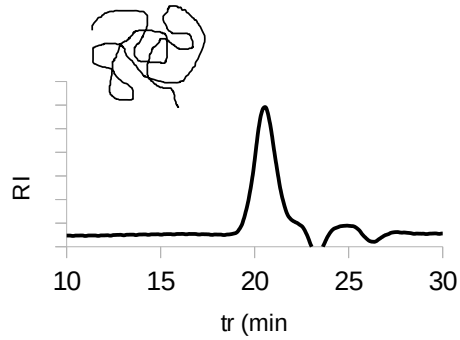
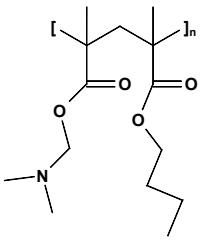
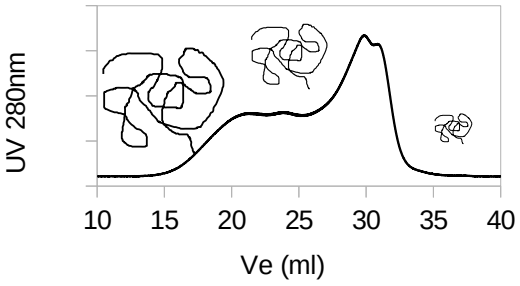




Analyte: **Polybutyl methacrylate/ Poly(dimethylamino-ethylmethacrylate) M=22kDa**

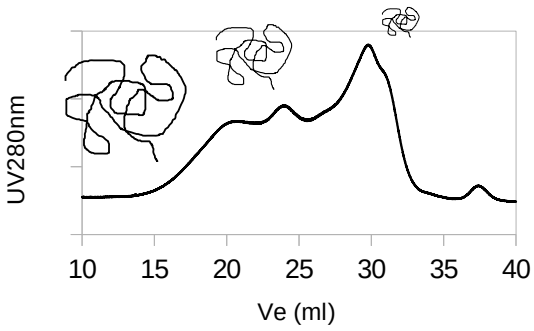
Column:	AppliChrom DMSO-Phil-P-300
Dimension:	2x 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	50°C
Detection:	RI



Analyte: **Pea protein GPC**

covering the calibration range of 100-1 000 000Da (based on dextrans)

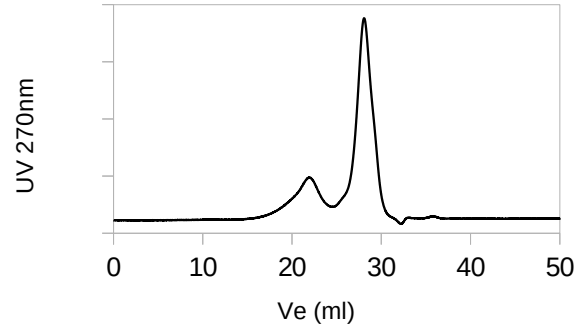
Column:	AppliChrom DMSO-Phil-P-Multipore
Dimension:	3x 300mm x 8mm
Mobil Phase:	DMSO
Flow:	0.4ml/min
Temperature:	55°C
Detection:	UV 280nm
Calibration:	vs. Dextran, pullulan or protein



Analyte: **Soy protein GPC**

covering the calibration range of 100-1 000 000Da (based on dextrans)

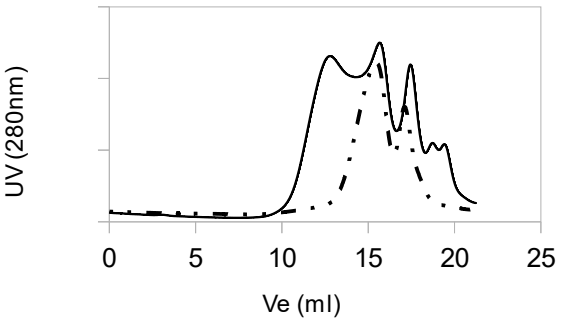
Column:	AppliChrom DMSO-Phil-P-Multipore
Dimension:	3x 300mm x 8mm
Mobil Phase:	DMSO
Flow:	0.4ml/min
Temperature:	55°C
Detection:	UV 280nm
Calibration:	vs. Dextran, pullulan or protein



Analyte: **Manuka honey protein GPC**

covering the calibration range of 100-1 000 000Da (based on dextrans)

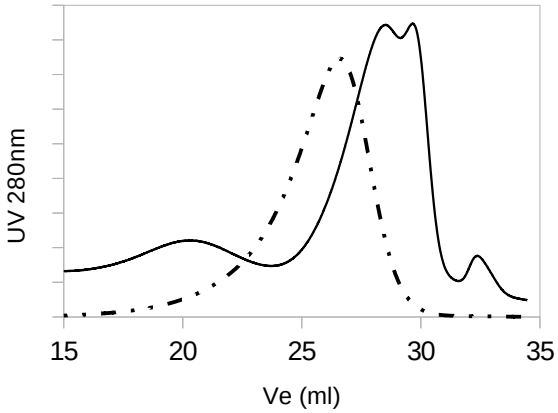
Column:	AppliChrom DMSO-Phil-P-Multipore
Dimension:	3x 300mm x 8mm
Mobil Phase:	DMSO
Flow:	0.4ml/min
Temperature:	40°C
Detection:	UV 270nm
Calibration:	vs. Dextran, pullulan or protein



Analyte: **Caramel color GPC**

(range: 100Da-1 500 000Da)
SEC / GPC comparison of 2 Caramel Coulor

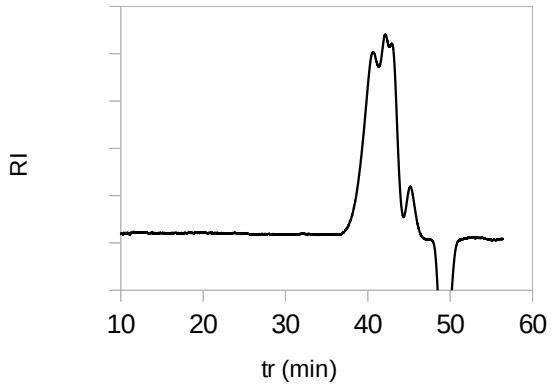
Column:	AppliChrom DMSO-Phil-P-100 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0.075M $NaNO_3$
Flow:	0.3ml/min
Temperature:	60°C
Detection:	UV 280nm



Analyte: **Humic acids / humates GPC**

(range: 100-1 500 000Da)
SEC / GPC comparison GPC / SEC comparison of 2 different humic acids / humates

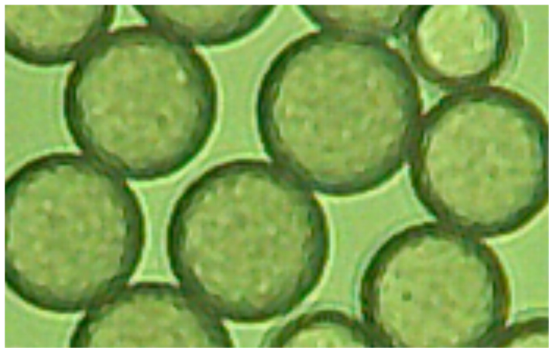
Column:	AppliChrom DMSO-Phil-P-Multipore
Dimension:	3x 300mm x 8mm
Mobile Phase:	DMSO
Flow:	0.4ml/min
Temperature:	70°C
Detection:	UV 280nm



Analyte: **Melamin GPC**

(range: 100-1 500 000Da)

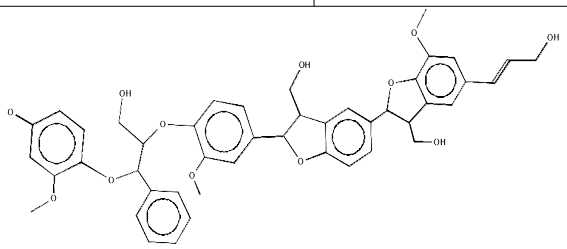
Column:	AppliChrom DMSO-Phil-P-100 AppliChrom DMSO-Phil-P-350
Dimension:	ea. 300mm x 8mm
Mobil Phase:	DMSO / 0,075M $NaNO_3$
Flow:	0.4ml/min
Temperature:	60°C
Detection:	RI



GPC-material – particle size uniformity

AppliChrom DMSO-Phil-P

Catalog #	Description	Dimension	Separation Range
SADP1002508 SADP1003008 SADP100508 SADP100308	AppliChrom DMSO-Phil-P-100	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	100Da-2 500Da
SADP2002508 SADP2003008 SADP200508 SADP200308	AppliChrom DMSO-Phil-P-200	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	100Da-20 000Da
SADP2502508 SADP2503008 SADP250508 SADP250308	AppliChrom DMSO-Phil-P-250	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	100Da-70 000Da
SADP3002508 SADP3003008 SADP300508 SADP300308	AppliChrom DMSO-Phil-P-300	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	1 000Da-300 000Da
SADP3502508 SADP3503008 SADP350508 SADP350308	AppliChrom DMSO-Phil-P-350	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	1 000Da-1 000 000Da
SADP4002508 SADP4003008 SADP400508 SADP400308	AppliChrom DMSO-Phil-P-400	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	10 000Da-5 000 000Da
SADP4502508 SADP4503008 SADP450508 SADP450308	AppliChrom DMSO-Phil-P-450	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	50 000Da→10 000 000Da
SADP6002508 SADP6003008 SADP600508 SADP600308	AppliChrom DMSO-Phil-P-600	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	–> 20 000 000Da
SADPM2508 SADPM3008 SADPM508 SADPM308	AppliChrom DMSO-Phil-P-Multipore	250mm x 8mm 300mm x 8mm 50mm x 8mm 30mm x 8mm	100Da – 1 000 000Da



Lignin

A general guarantee for the functionality with all analytes cannot be given. In individual cases, it is always advisable to discuss the issue with our product specialists. An application laboratory is also available in Oranienburg for your service. Please contact us.
Errors and changes excepted. Research and development products.
Not tested for clinical, diagnostic, or food use.
Version 11/2021

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Catalog	Description	Dimension

bulk quantities on request

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comment	

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