

HPLC
Specialist

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HPLC・GC 関連
試薬

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試薬・スタンダード

GPC 校正用ポリスチレンスタンダード・イオンペア試薬

GPC 用ポリスチレンスタンダード (Pressure Chemical 社製 ポリスチレンスタンダード) GPC 校正用です。1g 単位で販売していますので、必要な分子量を自由にお選びいただけます。

Cat. No.	分子量	MW/MN	定価 (1g 入り)	Cat. No.	分子量	MW/MN	定価 (1g 入り)
PS51110	800	1.20	7,000	PS30811	25,000	1.06	7,000
PS40717	906	1.11	7,000	PS80317	30,000	1.06	7,000
PS31019	1,241	1.07	7,000	PS30908	50,000	1.06	7,000
PS40627	1,300	1.06	7,000	PS61210	65,000	1.06	7,000
PS31116	1,681	1.06	7,000	PS40915	123,000	1.08	7,000
PS12A	2,000	1.10	7,000	PS50903	152,000	1.06	7,000
PS50110	2,032	1.06	7,000	PS30126	170,000	1.06	7,000
PS12C	2,200	1.06	7,000	PS50912	200,000	1.06	7,000
PS50123	2,500	1.06	7,000	PS70114	290,000	1.06	7,000
PS61223	2,500	1.10	7,000	PS3B	390,000	1.06	7,000
PS61213	3,350	1.10	7,000	PS00507	400,000	1.06	7,000
PS30525	4,000	1.06	7,000	PS61120	650,000	1.06	7,000
PS50131	5,200	1.06	7,000	PS6B	700,000	1.26	7,000
PS50828	5,780	1.05	7,000	PS80323	900,000	1.10	7,000
PS30420	13,000	1.06	7,000	PS61111	2,000,000	1.30	7,000

イオンペア試薬 (Regis Technologies)

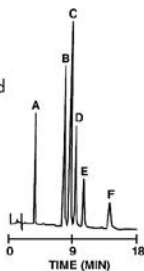
形式	製品名	容量	Cat No.
S5	1-pentylsodiumsulfonate	10 mL x 5 本	405025
S6	1-hexylsodiumsulfonate	10 mL x 5 本	405026
S7	1-heptylsodiumsulfonate	10 mL x 5 本	405027
S8	1-octylsodiumsulfonate	10 mL x 5 本	405028
S12	1-dodecylsodiumsulfonate	10 mL x 5 本	405021

0.5 M solutions of Alkyl Sulfonates (Each 10 mL bottle, diluted to 1 L, produces a 0.005 M solution)

製品名	容量	Cat No.
1-Pentanesulfonate, Sodium Salt	25 gm	403025
	100 gm	403125
1-Hexanesulfonate, Sodium Salt	25 gm	403026
	100 gm	403126
1-Heptanesulfonate, Sodium Salt	25 gm	403027
	100 gm	403127
1-Octanesulfonate, Sodium Salt	25 gm	403028
	100 gm	403128
1-Dodecanesulfonate, Sodium Salt	5 gm	403021
	25 gm	403022

Separation of Catecholamines using Ion Pair Reagents

Column: REXCHROM ODS, 5 μ m, 100Å
15 cm x 4.6 mm i.d.
Mobile Phase: [89/11] 0.005 M S8 ion pair concentrate/
acetonitrile, pH 2.5
Flow Rate: 1.0 mL/min
Load: 10 μ L
Detection: UV 280 nm
Peak Identities: A. 3,4-Dihydroxyphenylacetic acid
B. Norepinephrine
C. 3,4-Dihydroxyphenylalanine
D. Epinephrine
E. 3,4-Dihydroxybenzylamine
F. Dopamine



Separation of Artificial Sweeteners

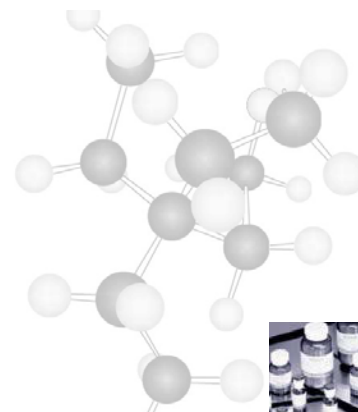
Column: REXCHROM Little Champ II (ODS), 3 μ m, 100Å
5 cm x 4.6 mm i.d.
Mobile Phase: [86/14] 0.005 M Q7 ion pair concentrate/
acetonitrile, pH 6.2
Flow Rate: 1.0 mL/min
Load: 10 μ L
Detection: UV 210 nm
Peak Identities: A. Aspartame
B. Acesulfame Potassium (Acesulfame-K)
C. Saccharin



形式	製品名	容量	Cat No.
Q5	1-pentyltriethyl-ammonium phosphate	10 mL x 5 本	404025
Q6	1-hexyltriethyl-ammonium phosphate	10 mL x 5 本	404026
Q7	1-heptyltriethyl-ammonium phosphate	10 mL x 5 本	404027
Q8	1-octyltriethyl-ammonium phosphate	10 mL x 5 本	404028
Q12	1-dodecyltriethyl-ammonium phosphate	10 mL x 5 本	404021

0.5 M solutions of Quaternary Alkyltriethylamines (Each 10 mL bottle, diluted to 1 L, produces a 0.005 M solution)

製品名	容量	Cat No.
4級アミンイオンペア剤キット		
Q5, Q6, Q7, Q8, Q12 各 1 本のキットです	10 mL x 5 本	404020
Tetrabutylammonium phosphate	10 mL	680502
0.5 M, pH 7.5	500 mL	680503



ガスクロマトグラフィー用の誘導体化試薬を各種取りそろえています。測定対象物の官能性により、最適な試薬が選択できます。反応条件の検討用として、試薬キットもご利用できます。



Function	method	derivative	recommended reagents
Alcohols,	silylation	R'O - TMS	BSA, MSTFA, MSHFBA, TSIM, SILYL-2110, SILYL-21, SILYL-1139
Phenols	acylation	R'O - CO - R	TFAA, HFBA, MBTFA, MBHFBA
R'OH	alkylation	R'O - R	TMSH
sterically hindered	silylation	R'O - TMS	TSIM, BSTFA, SILYL-991
Amines	silylation	R' - NR'' - TMS	BSA, MSTFA, MSHFBA, SILYL-991
primary, secondary	acylation	R' - NR'' - CO - R	TFAA, HFBA, MBTFA, MBHFBA
hydrochlorides	silylation	R' - NR'' - TMS	MSTFA
Amides	silylation	not stable	
	acylation	R' - CO - NH - CO - R	TFAA, MBTFA, HFBA, MBHFBA
Amino acids	silylation	R' - CH(NH - TMS) - CO - O - TMS	BSA, BSTFA, MSTFA, MSHFBA
	alkylation (a) + acylation (b)	R' - CH(NH - CO-R) - CO - O - R	a) MeOH/TMCS, TMSH b) TFAA, HFBA, MBTFA, MBHFBA
Carboxylic acids (fatty acids)	silylation	R' - CO - O - TMS susceptible to hydrolysis	BSA, MSTFA, MSHFBA, TMCS, TSIM, SILYL-2110, SILYL-21, Silyl 1139
salts	alkylation	R' - CO - O - R	DMF-DMA, MeOH/TMCS (1 M), TMSH
	silylation	R' - CO - O - TMS susceptible to hydrolysis	TMCS
Carbohydrates	silylation		MSTFA, TSIM, HMDS, SILYL-1139
	acylation		TFAA, MBTFA
Steroids	silylation		BSA, TSIM
	acylation		TFAA, MBTFA, HFBA, MBHFBA

製品名	検討内容	キット内容	Cat No.
誘導体化検討キット	誘導体化反応の最適化 アルキル化・アシル化・シリル化	2 x 1 ml each of TMSH, MSTFA, MBTFA	701952
アシル化キット	アシル化反応の最適化	2 x 1 ml each of MBTFA, TFAA, MBHFBA	701950
アルキル化キット	メチル化反応の最適化	3 x 1 ml each of TMSH, DMF-DMA	701951
シリル化キット	シリル化反応の最適化	2 x 1 ml each of MSTFA, BSTFA, TSIM, MSHFBA	701953

アシル化反応用試薬

試薬名	物性値
Pentafluorobenzoyl chloride PFBC: C ₆ F ₅ -CO-Cl	m.w. 230.52, Bp 158 - 159 °C (760 mm Hg), density d ₂₀ ⁴ = 1.601
Trifluoroacetic acid anhydride TFAA: CF ₃ -CO-O-CO-CF ₃	m.w. 210.04, Bp 39.5 - 40.5 °C (760 mm Hg), density d ₂₀ ⁴ = 1.490
Heptafluorobutyric acid anhydride HFBA: C ₃ F ₇ -CO-O-CO-C ₃ F ₇	m.w. 410.06, Bp 106 - 107 °C (760 mm Hg), density d ₂₀ ⁴ = 1.665
N-methyl-bis(trifluoroacetamide) MBTFA: CF ₃ -CO-N(CH ₃)-CO-CF ₃	m.w. 223.08, Bp 123 - 124 °C (760 mm Hg), density d ₂₀ ⁴ = 1.55
N-methyl-bis(heptafluorobutyramide) MBHFBA: C ₃ F ₇ -CO-N(CH ₃)-CO-C ₃ F ₇	m.w. 423.1, Bp 165 - 166 °C (760 mm Hg), density d ₂₀ ⁴ = 1.673

Code	Packing unit			
	10 x 1 ml	20 x 1 ml	1 x 10 ml	5 x 10 ml
HFBA		701110.201	701110.110	701110.510
MBTFA		701410.201	701410.110	701410.510
MBHFBA	701420.101	701420.201		
PFBC	701120.101			
TFAA			701130.110	701130.510

試薬名	物性値
N,N-dimethylformamide dimethylacetal DMF-DMA	m.w. 119.17 Bp 106 – 107 °C (760 mm Hg), density d20°/4° = 0.897
Trimethylsulphonium hydroxide TMSH	(0.2 M in methanol) m.w. 94.06

Code	Packing unit			
	10 x 1 ml	20 x 1 ml	1 x 10 ml	5 x 10 ml
DMF-DMA		701430.201	701430.110	
TMSH	701520.101	701520.201	701520.110	701520.510

試薬名	物性値
N,O-bis-trimethylsilyl-acetamide : BSA	m.w. 203.4, Bp 71 – 73 °C (35 mm Hg), density d20°/4° = 0.832
N,O-bis-trimethylsilyl-trifluoroacetamide : BSTFA	m.w. 257.4, Bp 40 °C (12 mm Hg), density d20°/4° = 0.961

	Packing unit				
	20 x 1 ml	1 x 10 ml	5 x 10 ml	1 x 50 ml	1 x 100 ml
BSA		701210.110	701210.510	701210.150	
BSTFA	701220.201	701220.110	701220.510		
SILYL-991 (BSTFA - TMCS (99:1))	701490.201			701490.150	701490.1100

試薬名	物性値
N-methyl-N-trimethylsilyl-trifluoroacetamide MSTFA	m.w. 199.1, Bp 70 °C (75 mm Hg), density d20°/4° = 1.1
N-methyl-N-trimethylsilyl-heptafluorobutyramide MSHFBA	m.w. 299.1, Bp 148 °C (760 mm Hg)
N-methyl-N-tert-butyltrimethylsilyl-trifluoroacetamide MBDSTFA	m.w. 241.3, Bp 168 – 170 °C (760 mm Hg), density d20°/4° = 1.121

	Packing unit							
	10 x 1 ml	20 x 1 ml	1 x 10 ml	5 x 10 ml	1 x 100 ml	6 x 50 ml	6 x 100 ml	12 x 100 ml
MSHFBA		701260.201	701260.110	701260.510	701260.1100		701260.6100	
MSTFA		701270.201	701270.110	701270.510	701270.1100	701270.650	701270.6100	701270.12100
MBDSTFA	701440.101	701440.201						

試薬名	物性値
Dimethyldichlorosilane : DMCS: (CH ₃) ₂ SiCl ₂	m.w. 129.06, Bp 70 °C (760 mm Hg), density d20°/4° = 1.07
Hexamethyldisilazane HMDS: (CH ₃) ₃ Si – NH – Si(CH ₃) ₃	m.w. 161.4, Bp 126 °C (760 mm Hg), density d20°/4° = 0.7742
Trimethylchlorosilane : TMCS: (CH ₃) ₃ SiCl	m.w. 108.7, Bp 57 °C (760 mm Hg), density d20°/4° = 0.8580
N-Trimethylsilyl-imidazole : TSIM	m.w. 140.3, Bp 94 – 96 °C (760 mm Hg), density d20°/4° = 0.961

	Packing unit of			
	20 x 1 ml	1 x 10 ml	5 x 10 ml	6 x 50 ml
DMCS				701230.650 *
HMDS			701240.510	701240.650 *
TMCS	701280.201 *			701280.650 *
TSIM	701310.201	701310.110	701310.510	

* : スクリューキャップ容器