

カラム出荷前検査変更点

製品	項目	変更前	変更後
YMC-Pack C8, ODS-A, ODS-AQ, ODS-AM ODS-AL (2.1 mmI.D. or less)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack C8, ODS-A, ODS-AQ, ODS-AM ODS-AL (3.0 mmI.D. or more)	Peak asymmetry	As	Tf
	Eluent	Methanol/Water (70/30, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Toluene 4. Naphthalene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Methanol/Water (70/30, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack Pro C18, Pro C8, Pro C4, Pro C18 RS, Hydrosphere C18 (2.1 mmI.D. or less)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Naphthalene 4. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack Pro C18, Pro C8, Pro C4, Pro C18 RS, Hydrosphere C18 (3.0 mmI.D. or more)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Naphthalene 4. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack C4 (2.1 mmI.D. or less)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack C4 (3.0 mmI.D. or more)	Peak asymmetry	As	Tf
	Eluent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Toluene 4. Naphthalene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack TMS, CN (2.1 mmI.D. or less)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)

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YMC-Pack TMS, CN (3.0 mmI.D. or more)	Peak asymmetry	As	Tf
	Eluent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Toluene 4. Naphthalene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
YMC-Pack PolymerC18	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	30°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack NH2, PA-G, Polyamine II	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (75/25, v/v)	Acetonitrile/Water (75/25, v/v)
	Detection	RI	RI
	Temperature	25°C	25°C
	Sample	0. (Water) 1. Fructose 2. Glucose 3. Sucrose 4. Maltose 5. Lactose	0. (Water) 1. Fructose 2. Sucrose
	Shipping solvent	Acetonitrile/Water (75/25, v/v)	Acetonitrile/Water (75/25, v/v)
YMC-Pack FA	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (90/10, v/v) adjusted by Trifluoroacetic acid (pH4.5)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 230 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Propionic acid -2- nitrophenyl hydrazide 2. Caproic acid -2- nitrophenyl hydrazide 3. Lauric acid -2- nitrophenyl hydrazide 4. Myristic acid -2- nitrophenyl hydrazide	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
YMC-Pack CA	Peak asymmetry	As	Tf
	Eluent	5 mM Phosphate buffer(pH7.0) /Acetonitrile (88/12, v/v) in 5 mM Tetraethylammonium bromide	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 400 nm	UV at 254 nm
	Temperature	40°C	Ambient
	Sample	1. Succinic acid -2- nitrophenyl hydrazide 2. Adipic acid -2- nitrophenyl hydrazide 3. Pimelic acid -2- nitrophenyl hydrazide	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile	Acetonitrile
YMC-Pack Ph (2.1 mmI.D. or less)	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
YMC-Pack Ph (3.0 mmI.D. or more)	Peak asymmetry	As	Tf
	Eluent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Toluene 4. Naphthalene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Methanol/Water (60/40, v/v)	Acetonitrile/Water (50/50, v/v)

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製品	項目	変更前	変更後
J'sphere ODS series	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 270 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Methyl benzoate 3. Progesterone 4. Butyl benzoate	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile	Acetonitrile
YMC Carotenoid	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (70/30, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Acetone 2. Acenaphthene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile	Acetonitrile
YMCbasic	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (60/40, v/v)	Acetonitrile/Water (60/40, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	Ambient	Ambient
	Sample	1. Uracil 2. Anthracene	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile	Acetonitrile
YMC-Pack PROTEIN-RP	Peak asymmetry	As	Tf
	Eluent	Acetonitrile/Water (40/60, v/v)	Acetonitrile/Water (50/50, v/v)
	Detection	UV at 254 nm	UV at 254 nm
	Temperature	37°C	Ambient
	Sample	1. Uracil 2. Benzene 3. Naphthalene 4. Biphenyl	1. Uracil 2. Methyl benzoate 3. Naphthalene
	Shipping solvent	Acetonitrile/Water (40/60, v/v)	Acetonitrile/Water (50/50, v/v)

Peak asymmetry

As, $As=b/a$, a:The first half of the peak at 10% peak height, b:The second half of the peak at 10% peak height.

Tf, $Tf=W_{0.05h}/2f$, $W_{0.05h}$:The width of the peak at 5% peak height, f:The first half of the peak at 5% peak height.