



Preparative Columns (I.D. 10mm~50mm)

Columns for Polymer-based Reversed Phase Chromatography

Asahipak ODP-50 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6820001	Asahipak ODP-50 10E	≥ 10,000	Octadecyl	5	10.0 × 250
F6820035	Asahipak ODP-90 20F	≥ 9,000	Octadecyl	9	20.0 × 300
F6820019	Asahipak ODP-130 28F	≥ 9,000	Octadecyl	13	28.0 × 300
F6710004	Asahipak ODP-130G 7B	(guard column)	Octadecyl	13	7.5 × 50
F6714029	Asahipak ODP-130G 20C	(guard column)	Octadecyl	13	20.0 × 100

* See page 8 for Asahipak ODP-50. Base Material : Polyvinyl alcohol
* See page 72 for semi-micro columns and micro columns.

Asahipak C8P-50 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6820003	Asahipak C8P-50 10E	≥ 8,000	Octyl	5	10.0 × 250
F6714004	Asahipak C8P-50G 7B	(guard column)	Octyl	5	7.5 × 50

* See page 8 for Asahipak C8P-50. Base Material : Polyvinyl alcohol

Asahipak C4P-50 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6820005	Asahipak C4P-50 10E	≥ 7,000	Butyl	5	10.0 × 250
F6714005	Asahipak C4P-50G 7B	(guard column)	Butyl	5	7.5 × 50

* See page 8 for Asahipak C4P-50. Base Material : Polyvinyl alcohol

RSpak DE-613 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6513013	RSpak DE-2013	≥ 10,000	–	12	20.0 × 300
F6700190	RSpak DE-LG	(guard column)	–	12	8.0 × 50
F6513015	RSpak DE-5013	–	–	12	50.0 × 300
F6700191	RSpak DE-LLG	(guard column)	–	12	20.0 × 100

* See page 10 for RSpak DE-613. Base Material : Polymethacrylate
* See page 72 for semi-micro columns and micro columns.

RSpak DM-614 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6514014	RSpak DM-2014	≥ 5,000	–	12	20.0 × 300
F6700404	RSpak DM-LG	(guard column)	–	12	8.0 × 50
F6514022	RSpak DM-5014	–	–	12	50.0 × 300
F6700162	RSpak DM-LLG	(guard column)	–	12	20.0 × 100

* See page 10 for RSpak DM-614. Base Material : Polyhydroxymethacrylate

Preparative Columns



Columns for Polymer-based Hydrophilic Interaction Chromatography (HILIC)

Asahipak NH2P-50 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6830001	Asahipak NH2P-50 10E	≥ 10,000	Amino	5	10.0 × 250
F6830031	Asahipak NH2P-90 20F	≥ 10,000	Amino	9	20.0 × 300
F6830007	Asahipak NH2P-130 28F	≥ 1,000	Amino	13	28.0 × 300
F6710017	Asahipak NH2P-130G 7B	(guard column)	Amino	13	7.5 × 50

* See page 12 for Asahipak NH2P-50. Base Material : Polyvinyl alcohol
* See page 72 for semi-micro columns and micro columns.

Columns for Silica-based Reversed Phase Chromatography

Silica C18M preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F7560040	Silica C18M 10E	≥ 16,000	Octadecyl	5	10.0 × 250
F7560041	Silica C18M 20E	≥ 16,000	Octadecyl	5	20.0 × 250

* See page 14 for Silica C18M. Base Material : Silica

Silica 5C8 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F7560062	Silica 5C8 10E	≥ 15,000	Octyl	5	10.0 × 250
F7560063	Silica 5C8 20E	≥ 15,000	Octyl	5	20.0 × 250

* See page 14 for Silica 5C8. Base Material : Silica

Silica 5C4 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F7560054	Silica 5C4 10E	≥ 15,000	Butyl	5	10.0 × 250
F7560055	Silica 5C4 20E	≥ 15,000	Butyl	5	20.0 × 250

* See page 14 for Silica 5C4. Base Material : Silica

Columns for Silica-based Normal Phase and Hydrophilic Interaction Chromatography (HILIC)

Silica 5SIL preparative type [For normal phase chromatography]

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F7560050	Silica 5SIL 10E	≥ 15,000	–	5	10.0 × 250
F7560051	Silica 5SIL 20E	≥ 15,000	–	5	20.0 × 250

* See page 14 for Silica 5SIL. Base Material : Silica

Silica 5NH preparative type [For normal phase and hydrophilic interaction chromatography (HILIC)]

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F7560060	Silica 5NH 10E	≥ 8,000	Aminopropyl	5	10.0 × 250
F7560061	Silica 5NH 20E	≥ 8,000	Aminopropyl	5	20.0 × 250

* See page 14 for Silica 5NH. Base Material : Silica



Preparative Columns

Columns for Ligand Exchange Chromatography

■ SUGAR KS-800 series preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group (Counter Ion)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6502007	SUGAR KS-2001	≥ 7,000	Sulfo (Na ⁺)	13	20.0 × 300	KS-801
F6502008	SUGAR KS-2002	≥ 7,000	Sulfo (Na ⁺)	13	20.0 × 300	KS-802
F6502009	SUGAR KS-2003	≥ 8,000	Sulfo (Na ⁺)	13	20.0 × 300	KS-803
F6502010	SUGAR KS-2004	≥ 6,000	Sulfo (Na ⁺)	18	20.0 × 300	KS-804
F6502011	SUGAR KS-2005	≥ 6,000	Sulfo (Na ⁺)	18	20.0 × 300	KS-805
F6502012	SUGAR KS-2006	≥ 6,000	Sulfo (Na ⁺)	18	20.0 × 300	KS-806
F6700002	SUGAR KS-LG	(guard column)	Sulfo (Na ⁺)	13	8.0 × 50	(guard column)

* See page 16 for SUGAR KS-800 series.

Base Material : Styrene divinylbenzene copolymer

■ RSpak DC-613 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group (Counter Ion)	Particle Size (μm)	Column Size (mm) I.D. x Length
F6514013	RSpak DC-2013	≥ 6,000	Sulfo (Na ⁺)	10	20.0 × 300
F6700402	RSpak DC-LG	(guard column)	Sulfo (Na ⁺)	10	8.0 × 50
F6514021	RSpak DC-5013	–	Sulfo (Na ⁺)	10	50.0 × 300
F6700172	RSpak DC-LLG	(guard column)	Sulfo (Na ⁺)	10	20.0 × 100

* See page 16 for RSpak DC-613.

Base Material : Styrene divinylbenzene copolymer

Columns for Ion Exclusion Chromatography

■ RSpak KC-811 preparative type

Product Code	Product Name	Plate Number (TP/column)	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6505012	RSpak KC-2011	≥ 8,000	Sulfo	13	20.0 × 300
F6700010	RSpak KC-LG	(guard column)	Sulfo	13	8.0 × 50

* See page 20 for RSpak KC-811.

Base Material : Styrene divinylbenzene copolymer

Columns for Anion Exchange Chromatography

■ IEC QA-825 preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6548000	IEC QA-2025	Quaternary ammonium	20	20.0 × 150
F6548050	IEC QA-5025	Quaternary ammonium	37	50.0 × 300
F6709602	IEC QA-LG (guard column)	Quaternary ammonium	20	8.0 × 50

* See page 52 for IEC QA-825.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyhydroxymethacrylate

■ IEC DEAE-825 preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6548001	IEC DEAE-2025	Diethylaminoethyl	20	20.0 × 150
F6598051	IEC DEAE-5025	Diethylaminoethyl	37	50.0 × 300
F6709603	IEC DEAE-LG (guard column)	Diethylaminoethyl	20	8.0 × 50

* See page 52 for IEC DEAE-825.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyhydroxymethacrylate

■ Asahipak ES-502N preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6840004	Asahipak ES-502N 20C	Diethylaminoethyl	13	20.0 × 100
F6710021	Asahipak GS-20G 7B (guard column)	–	20	7.5 × 50

* See page 52 for Asahipak ES-502N 7C.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyvinyl alcohol

*Contact Shodex or our distributors near you for customized columns.

Preparative Columns



Columns for Cation Exchange Chromatography

■ IEC SP-825 preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6548002	IEC SP-2025	Sulfopropyl	20	20.0 × 150
F6548052	IEC SP-5025	Sulfopropyl	37	50.0 × 300
F6709604	IEC SP-LG (guard column)	Sulfopropyl	20	8.0 × 50

* See page 54 for IEC SP-825.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyhydroxymethacrylate

■ IEC CM-825 preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6548003	IEC CM-2025	Carboxymethyl	20	20.0 × 150
F6548053	IEC CM-5025	Carboxymethyl	37	50.0 × 300
F6709605	IEC CM-LG (guard column)	Carboxymethyl	20	8.0 × 50

* See page 54 for IEC CM-825.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyhydroxymethacrylate

■ Asahipak ES-502C preparative type

Product Code	Product Name	Functional Group	Particle Size (μm)	Column Size (mm) I.D. x Length
F6840003	Asahipak ES-502C 20C	Carboxymethyl	13	20.0 × 100
F6710021	Asahipak GS-20G 7B (guard column)	–	20	7.5 × 50

* See page 54 for Asahipak ES-502C 7C.

* See page 77 for semi-micro
columns and micro columns.

Base Material : Polyvinyl alcohol

Aqueous SEC (GFC) Columns : Silica-based

■ PROTEIN KW-800 series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6505020	PROTEIN KW-2002.5	≥ 17,000	5	20.0 × 300	KW-802.5
F6505021	PROTEIN KW-2003	≥ 17,000	5	20.0 × 300	KW-803
F6505022	PROTEIN KW-2004	≥ 14,000	7	20.0 × 300	KW-804
F6709556	PROTEIN KW-LG	(guard column)	7	8.0 × 50	(guard column)

* See page 28 for PROTEIN KW-800 series.

Base Material : Silica

* See page 73 for semi-micro columns and micro columns.

Aqueous SEC (GFC) Columns : Polymer-based

■ OHpak SB-800 HQ series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6516011	OHpak SB-2002	≥ 9,000	15	20.0 × 300	SB-802 HQ
F6516012	OHpak SB-2002.5	≥ 12,000	10	20.0 × 300	SB-802.5 HQ
F6516013	OHpak SB-2003	≥ 12,000	10	20.0 × 300	SB-803 HQ
F6516014	OHpak SB-2004	≥ 12,000	18	20.0 × 300	SB-804 HQ
F6516015	OHpak SB-2005	≥ 12,000	20	20.0 × 300	SB-805 HQ
F6516016	OHpak SB-2006	≥ 12,000	20	20.0 × 300	SB-806 HQ
F6516017	OHpak SB-2006M	≥ 12,000	20	20.0 × 300	SB-806M HQ
F6709555	OHpak SB-LG	(guard column)	18	8.0 × 50	(guard column)

* See page 30 for OHpak SB-800 HQ series.

Base Material : Polyhydroxymethacrylate

* See page 74 for semi-micro columns and micro columns.

(Note) The maximum solvent tolerance of the SB-2000 series for methanol, acetonitrile, and DMF is 50%.
Solvent tolerance differs from that of the standard SB-800 HQ columns.

*Contact Shodex or our distributors near you for customized columns.



Preparative Columns

Multimode Columns

Asahipak GS-HQ series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6810017	Asahipak GS-220 20F	≥ 8,000	13	20.0 × 300	GS-220 HQ
F6810018	Asahipak GS-320 20F	≥ 8,000	13	20.0 × 300	GS-320 HQ
F6810019	Asahipak GS-520 20F	≥ 8,000	13	20.0 × 300	GS-520 HQ
F6810020	Asahipak GS-620 20F	≥ 8,000	13	20.0 × 300	GS-620 HQ
F6810034	Asahipak GS-220 20G	≥ 14,000	13	20.0 × 500	GS-220 HQ
F6810035	Asahipak GS-320 20G	≥ 14,000	13	20.0 × 500	GS-320 HQ
F6810036	Asahipak GS-520 20G	≥ 14,000	13	20.0 × 500	GS-520 HQ
F6810037	Asahipak GS-620 20G	≥ 14,000	13	20.0 × 500	GS-620 HQ
F6710021	Asahipak GS-20G 7B	(guard column)	20	7.5 × 50	(guard column)

* See page 32 for Asahipak GS-HQ series. Base Material : Polyvinyl alcohol
* See page 75 for semi-micro columns and micro columns.

Aqueous/Organic SEC Columns

Asahipak GF-HQ series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6810030	Asahipak GS-310 20F	≥ 8,000	13	20.0 × 300	GF-310 HQ
F6810031	Asahipak GS-510 20F	≥ 8,000	13	20.0 × 300	GF-510 HQ
F6810032	Asahipak GS-710 20F	≥ 8,000	13	20.0 × 300	GF-710 HQ
F6810033	Asahipak GSM-700 20F	≥ 8,000	13	20.0 × 300	GF-7M HQ
F6810038	Asahipak GS-310 20G	≥ 14,000	13	20.0 × 500	GF-310 HQ
F6810039	Asahipak GS-510 20G	≥ 14,000	13	20.0 × 500	GF-510 HQ
F6810040	Asahipak GS-710 20G	≥ 14,000	13	20.0 × 500	GF-710 HQ
F6810041	Asahipak GSM-700 20G	≥ 14,000	13	20.0 × 500	GF-7M HQ
F6710020	Asahipak GS-10G 7B	(guard column)	20	7.5 × 50	(guard column)

* See page 34 for Asahipak GF-HQ series. Base Material : Polyvinyl alcohol
* See page 76 for semi-micro columns and micro columns.
(Note) Usable solvents for GS-710 20F and 20G are water and methanol.
Solvent tolerance differs from the standard GF-710 HQ.
Selection of GSM-700 20F or 20G is recommended in case of use of other solvents for scale up testing with GF-710 HQ.

Organic SEC (GPC) Columns

GPC KF-800 series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6102401	GPC KF-2001	≥ 18,000	6	20.0 × 300	KF-801
F6102402	GPC KF-2002	≥ 18,000	6	20.0 × 300	KF-802
F6102425	GPC KF-2002.5	≥ 18,000	6	20.0 × 300	KF-802.5
F6102403	GPC KF-2003	≥ 18,000	6	20.0 × 300	KF-803
F6102404	GPC KF-2004	≥ 14,000	7	20.0 × 300	KF-804
F6102405	GPC KF-2005	≥ 10,000	10	20.0 × 300	KF-805
F6102406	GPC KF-2006	≥ 10,000	10	20.0 × 300	KF-806
F6102409	GPC KF-2006M	≥ 10,000	10	20.0 × 300	KF-806M
F6700406	GPC KF-LG	(guard column)	15	8.0 × 50	(guard column)

* See page 36 for GPC KF-800 series. Base Material : Styrene divinylbenzene copolymer

*Contact Shodex or our distributors near you for customized columns.

Preparative Columns



Organic SEC (GPC) Columns

GPC K-800 series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6102301	GPC K-2001	≥ 18,000	6	20.0 × 300	K-801
F6102312	GPC K-2002	≥ 18,000	6	20.0 × 300	K-802
F6102315	GPC K-2002.5	≥ 18,000	6	20.0 × 300	K-802.5
F6102303	GPC K-2003	≥ 18,000	6	20.0 × 300	K-803
F6102304	GPC K-2004	≥ 14,000	7	20.0 × 300	K-804
F6102305	GPC K-2005	≥ 10,000	10	20.0 × 300	K-805
F6102306	GPC K-2006	≥ 10,000	10	20.0 × 300	K-806
F6102309	GPC K-2006M	≥ 10,000	10	20.0 × 300	K-806M
F6700407	GPC K-LG	(guard column)	15	8.0 × 50	(guard column)

* See page 38 for GPC K-800 series. Base Material : Styrene divinylbenzene copolymer

Preparative Columns [Custom-made]

Organic SEC (GPC) Columns

GPC K-800 series preparative type

Product Code	Product Name	Plate Number (TP/column)	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6102001	GPC H-2001	≥ 13,000	15	20.0 × 500	K-801
F6102002	GPC H-2002	≥ 13,000	15	20.0 × 500	K-802
F6102025	GPC H-2002.5	≥ 13,000	15	20.0 × 500	K-802.5
F6102003	GPC H-2003	≥ 13,000	15	20.0 × 500	K-803
F6102004	GPC H-2004	≥ 13,000	15	20.0 × 500	K-804
F6102005	GPC H-2005	≥ 13,000	15	20.0 × 500	K-805
F6102006	GPC H-2006	≥ 13,000	15	20.0 × 500	K-806
F6102009	GPC H-2006M	≥ 12,000	15	20.0 × 500	K-806M
F6700310	GPC H-G	(guard column)	15	8.0 × 50	(guard column)

* See page 38 for GPC K-800 series. Base Material : Styrene divinylbenzene copolymer

GPC KF-800 series preparative type

Product Code	Product Name	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6108010	GPC KF-5001	15	50.0 × 300	KF-801
F6108020	GPC KF-5002	15	50.0 × 300	KF-802
F6108025	GPC KF-5002.5	15	50.0 × 300	KF-802.5
F6108030	GPC KF-5003	15	50.0 × 300	KF-803
F6108040	GPC KF-5004	15	50.0 × 300	KF-804
F6700408	GPC KF-LLG	15	20.0 × 100	(guard column)

* See page 36 for GPC KF-800 series. Base Material : Styrene divinylbenzene copolymer

GPC K-800 series preparative type

Product Code	Product Name	Particle Size (μm)	Column Size (mm) I.D. x Length	Standard Column
F6109010	GPC K-5001	15	50.0 × 300	K-801
F6109020	GPC K-5002	15	50.0 × 300	K-802
F6109025	GPC K-5002.5	15	50.0 × 300	K-802.5
F6109030	GPC K-5003	15	50.0 × 300	K-803
F6109040	GPC K-5004	15	50.0 × 300	K-804
F6700409	GPC K-LLG	15	20.0 × 100	(guard column)

* See page 38 for GPC K-800 series. Base Material : Styrene divinylbenzene copolymer

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