

Introduction

We are pleased to present the 12th YMC General Catalog. Since its formation in 1980, YMC CO., LTD. has been working in the rapidly changing field of chemistry. Over this time, the rate of discovery of new materials and technologies for improving the quality of life have been occurring at rates never dreamed of by past generations. Additionally, chemistry disciplines are becoming increasingly cross-linked with each other as well as with related technologies, and these discoveries generate an even greater impact on the expansion of all chemical and biological fields.

YMC CO., LTD. believes that progress in chemistry is infinite and has focused its resources in the field of High

Performance Liquid Chromatography, a key technology that contributes to the discovery, analysis, and purification of important chemical substances. Substances that are discovered, analyzed, and/or purified using YMC products frequently contribute to the improved health and well being of humans and animals. For example, YMC is extremely proud of the important contribution that our company makes in the area of diabetes care. Compounds used in the treatment of diabetes are often analyzed and/or purified using YMC products developed and manufactured by our company.

YMC's intellectual assets and the know-how cultivated by many years of experience with High Performance Liquid Chromatography have been combined with complementing technology platforms so that we can continue our challenge of pushing limits in precision, detection, discovery, and production. The following pages in this catalogue represent the fruits of our company's effort towards helping YMC fulfill its mission of helping our customers succeed in sustaining and improving the quality of life for the present and future generations.



山村隆治

Ryuji Yamamura
CEO

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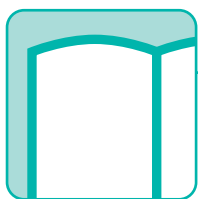
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Please read this section before ordering



Checking a catalog item

Check your desired product in the ordering information section on each page.

Ordering Information

YMC-Pack Pro C18

Phase dimension	Column I.D. (mm)	Column length (mm)			
		50	75	100	150
120 Å 5 μm	2.0	AS12S05-0502WT	AS12S05-L502WT	AS12S05-1002WT	AS12S05-1502WT
	3.0	AS12S05-0503WT	AS12S05-L503WT	AS12S05-1003WT	AS12S05-1503WT
	4.6	AS12S05-0546WT	AS12S05-L546WT	AS12S05-1046WT	AS12S05-1546WT
	6.0	—	—	—	AS12S05-1506WT

Packing material type

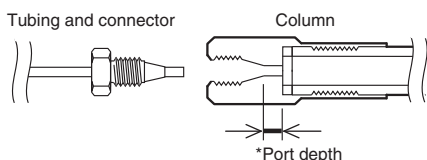
Pore size

Column size

Product number

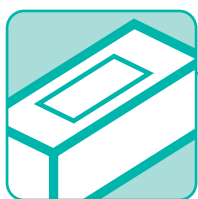
S: Spherical packing material
I: Irregular packing material

Consideration of connector and column fittings



The end of the product number	*Port depth	Style of endfitting
PT / PTH	2 mm	Parker style (UPLC compatible)
WT / WX / WTG / WP	3 mm	Waters (W) style

UPLC is a registered trademark of Waters Corporation



Checking the product label

Check these items on the label of your product before re-ordering.

notes:

YMC HPLC COLUMN
www.ymc-group.com

FLOW

Product name: **YMC-Triart C18**

Column size: **150 x 4.6 mm I.D.**

Particle size, pore size: **S-5 μm, 12nm**

TA12S05-1546WT — Product No.

No.0415157307 — Serial No.

Purchasing products

YMC CO., LTD. products are available all over the world. Our products are available through local distributors. For distributors all over the world, visit our web site:

URL <http://www.ymc-group.com>



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E-Mail: sales@ymc.sg

URL: <http://www.ymc.sg>

Featured Products

CHIRAL ART

- HPLC column/packing material with polysaccharide derivatives chiral selector
- Applicable to various chiral compounds
- Excellent resolution/durability
- Extremely low initial cost on analysis and purification

YMC-BioPro

- Ion exchange columns ideal for analysis of proteins, peptides, and nucleic acids
- Newly developed hydrophilic polymer beads with low nonspecific adsorption
- Non-porous type for increasing resolution and throughput
- Porous type for higher binding capacity and recovery

BioPro SmartSep/BioPro Ion Exchange Media

- BioPro SmartSep ion exchange media for high-throughput purification of biopharmaceuticals
- BioPro ion exchange media for purification of biopharmaceuticals, proteins and nucleotides
- High productivity on purification
- Available in Screening Kit for media selection and method development

YMC-Triart

- Effective for method screening with various chemistries
- Great chemical durability provided by hybrid particles
- Superior peak shapes for a wide range of compounds and in various conditions
- UHPLC compatible column with operating pressure up to 100 MPa packed with 1.9 μm particle
- Available in highly-durable semi-preparative column

Meteoric Core

- Ultra fast analysis and excellent resolution
- Excellent peak shape on basic and coordination compounds
- Wide usable pH range
- Low column bleeding and ideal for LC/MS

Bulk packing material based on organic/inorganic hybrid

- For lab-scale to production-scale purification
- Excellent durability and long lifetime
- Compatible with alkaline CIP
- Outstanding cost-effectiveness

Preparative Systems

BioStream

- Suitable for downstream processing for biopharmaceutical manufacturing
- Compliance with cGMP

Multiple Preparative HPLC LC-Forte/R

- Preparative device designed for both high-/low- pressure chromatography
- Ideal for purification in the crude stage through to the final stage
- Compact design but equipped with multiple functions such as recycling function, automatic programming function, etc.

Preparative HPLC Devices K-Prep series

- Strong support for preparative purifications provided by fully-automatic operation by PC
- Custom-made device available upon request
- Compliance with IQ/OQ validation and CSV

DAD/DAU series

- Suitable for high purification in various fields such as pharmaceuticals, fine chemicals and functional foods
- Cost-effective self-packing dynamic axial compression columns
- Superior column performance, durability and reproducibility provided by usage at constant pressure

Flow Reactor

KeyChem[®]-Integral

- Heterogeneous reaction in single system

YSP-series syringe pump

- High-performance and cost-effective syringe pumps

YMC Columns

Product Name	USP CLASS No.	Pore size (Å)	Particle size (µm)	C%	Silanol treatment	Usable pH range	Page				
							Analytical column	Preparative column			
ODS											
YMC-Triart	C18	L1	120	1.9, 3, 5	20	Yes	1.0~12.0	59-61	116-120		
	C18 ExRS		80	1.9, 3, 5	25			62			
Meteoric Core	C18		80	2.7	7		1.5~10.0	72-75	-		
	C18 BIO		160	2.7	5						
Pro series	Pro C18		120	2, 3, 5	16		2.0~8.0	83, 84	116-121		
	Hydrosphere C18		120	2, 3, 5	12						
	Pro C18 RS		80	3, 5	22						
YMC-Pack ODS series	ODS-A		120	3, 5	17		2.0~7.5	87	116-121		
			200	5	12						
			300	3, 5	7						
	ODS-AM		120	3, 5	17					87	121
	ODS-AQ		120	3, 5	14					88	116-121
ODS-AL	200		5	10	88		121				
J'sphere ODS series	ODS-H80		80	4	22		Yes	1.0~9.0	89	121	
	ODS-M80		80	4	14			2.0~7.5			
	ODS-L80		80	4	9						
YMC-Pack PolymerC18		-	6, 10	-	-	2.0~13.0	89	-			
Other than ODS											
YMC-Triart	C8	L7	120	1.9, 3, 5	17	Yes	1.0~12.0	63	116-120		
	Phenyl	L11	120	1.9, 3, 5	17		1.0~10.0	64			
	PFP	L43	120	1.9, 3, 5	15		No	1.0~8.0		65	
Meteoric Core C8		L7	80	2.7	5	Yes	1.5~9.0	72-75	-		
Pro series	Pro C8	L7	120	3, 5	10					96	122
	Pro C4	L26	120	3, 5	7						
YMC-Pack series	C ₈	L7	120	3, 5	10	Yes	2.0~7.5	97	122		
			200	5	7						
			300	5	4						
	C ₄	L26	120	3, 5	7			97	122		
			200	5	5						
			300	5	3						
	TMS	L13	120	3, 5	4			98	122		
	Ph	L11	120	3, 5	9			98	122		
	CN	L10	120	3, 5	7			99	122		
300			5	3							
PROTEIN-RP	L26	200	5	4	-	1.5~7.5	99	123			
YMCbasic		L7	200	3, 5	7	Yes	2.0~7.5	100	-		
YMC Carotenoid		L62	-	3, 5	-	-	2.0~7.5	100	123		

Reversed-phase

Product Name		USP CLASS No.	Pore size (Å)	Particle size (µm)	C%	Silanol treatment	Usable pH range	Page		
								Analytical column	Preparative column	
Normal-phase	YMC-Triart Diol-HILIC	L20	120	1.9, 3, 5	12		2.0~10.0	66	–	
	YMC-Pack series	SIL	L3	120	3, 5	–	–	2.0~7.5	104	123
		SIL-06		60	5				104	123
		Diol-NP	L20	60	5					
				120	5					
		CN	L10	120	5			105	122	
		PVA-Sil	L24	120	5			2.0~9.5	105	–
		Polyamine II	–	120	5			2.0~7.5	106, 107	123
		NH ₂	L8	120	5				108	123
PA-G	–	120	5	4.0~7.5	108	–				
Ion exchange	YMC-BioPro series	QA	–	porous	5	–	–	2.0~12.0	37	–
		SP		porous	5					
		QA-F		non-porous	3, 5				38, 39	–
		SP-F		non-porous	3, 5					
Silica-based SEC	YMC-Pack series	L20 L33 L59	Diol-60	60	5	–	–	5.0~7.5	45, 46	47
			Diol-120	120	5					
			Diol-200	200	5					
			Diol-300	300	5					
	YMC-GPC	–	50	10	–	–	–	–	124, 125	
100	10									
500	10									
1000	10									
Chiral separation	CHIRAL ART	Amylose-C	L51	–	3, 5	–	–	–	26~29	26~29
		Cellulose-C	L40	–	3, 5					
		Amylose-SA	–	–	3, 5			2.0~9.0		
		Cellulose-SB		–	3, 5					
		Cellulose-SC		–	3, 5					
	YMC CHIRAL series	NEA (R), (S)	–	300	5	–	–	2.0~6.5	30	–
		α-CD BR		120	5			3.5~6.5	31	–
		β-CD BR		120	5					
γ-CD BR		120		5						

