

YMC ECO Glass Columns | Overview



YMC ECO - Robust Glass Columns for reproducible BioLC

Optimised for the purification and analysis of biomolecules – Biochromatography places specific demands on column hardware. Biomolecules such as proteins, peptides and antibodies require gentle separation conditions, high biochemical compatibility and reliable chromatographic performance.

Designed specifically for BioLC applications, YMC ECO glass columns are ideally suited to use with biocompatible chromatography media such as agarose- or polymer-based materials. They facilitate reproducible column packing, stable chromatographic conditions and reliable separation of sensitive biomolecules.

Thanks to their robust construction and proven YMC packing technology, the columns offer a reliable and durable hardware solution for research, method development and process development applications.

Flexible bed lengths

The bed length of the YMC ECO column can be adjusted to optimally support different BioLC applications. Adjustment ranges of up to 100 mm are available as standard and can optionally be extended to 200 mm.



Optimised for size exclusion chromatography

YMC ECO glass columns are available with glass bodies of up to 700 mm in length, enabling the packing of the long column beds required for high-resolution SEC applications.



Comfort and reliability for your BioLC applications

Pistons made of POM and PE frits, as well as EPDM O-rings, are optimised for biochromatography requirements. A squeezed O-ring provides reliable sealing, ensuring stable and secure performance in a temperature range of 4–40 °C.

YMC ECO Glass Columns | Specifications



Specifications	
Inner diameter (ID)	10, 15, 26, 50 mm
Maximum bed length	200, 300, 500, 700 mm
Temperature range	4–40 °C
Column stand	available for 25, 50 mm ID

ID (mm)	Pressure limit (bar)	Bed length range (mm)	Volume range (mL)
10	30	100–200	8.2–16
		200–300	16–24
		400–500	33–40
		600–700	50–57
15	25	100–200	18–35
		200–300	35–53
		400–500	71–88
		600–700	107–123
26	15	100–200	55–109
		200–300	109–164
		400–500	219–273
		600–700	329–383
50	10	100–200	210–418
		200–300	418–627
		400–500	837–1045
		600–700	1255–1463

* Informations on the achievable ranges with a second long piston is available from YMC upon request.

Solvents	Resistance					
	Complete column	Glass body	Frit	O-ring	Piston	Tubing
Acetone	+	+	+	+	+	+
Acetonitrile	o	+	+	o	o	+
Ammonium dihydrogen phosphate	+	+	+	+	+	+
Ammonium hydroxide (30%)	+	+	+	+	+	+
Cyclohexane	-	+	o	-	+	+
Dichloromethane	-	+	-	-	o	+
0,1 M EDTA (3%)	+	+	+	+	+	+
1 M Acetic acid (6%)	+	+	+	+	+	+
Ethanol	+	+	+	+	+	+
Ethyl acetate	o	+	+	o	o	+
n-Hexane	-	+	o	-	+	+
Isopropanol	+	+	+	+	+	+
Methanol	+	+	+	+	+	+
Phosphoric acid (5%)	-	+	+	+	-	+
Sulfuric acid (6%)	-	+	+	+	-	+
THF	-	+	-	-	o	+
Toluene	-	+	-	-	o	+
2 M NaOH (8%)	+	+	+	+	+	+
1 M HCl (4%)	-	+	+	+	-	+
8 M Urea (36%)	+	+	+	+	+	+
1 M NaCl	+	+	+	+	+	+
0.5 M Na ₂ SO ₄	+	+	+	+	+	+

* The stated chemical resistances apply to temperatures up to 40 °C. Lower temperatures and concentrations generally improve chemical resistance.

-: Not resistant
o: Limited resistant
+: Resistant

