

YMC-Pack Diol-SEC



Biomolecules

YMC-Pack Diol-SEC

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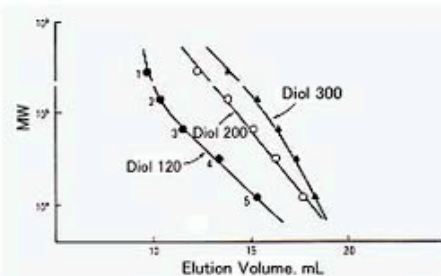
YMC-Pack Diol-SEC is a size exclusion chromatography column utilizing a silica gel base. Diol-120, 200, and 300 are suitable for separation or molecular weight determination of proteins with molecular weights of 10,000 to several hundred thousands. Diol-60 is the most suitable for separation of peptides or oligosaccharides whose molecular weights are 10,000 or less.

Specification

Particle size :	5µm
Pore size :	60Å, 120Å, 200Å, 300Å
Usable pH range :	5.0-7.5

- Utilizes silica gel base with high resistance to pressure
- Low-cost gel filtration column
- Useful for molecular weight determination of proteins and sugars
- Minimal secondary interactions

Calibration curves of proteins obtained using columns with different pore sizes

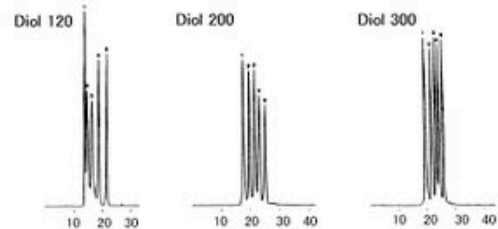


1. Glutamate dehydrogenase
2. Lactate dehydrogenase
3. Enolase
4. Adenylate kinase
5. Cytochrome c

Column:	YMC-Pack Diol-SEC 500 x 8.0 mm I.D.
Eluent:	0.1M KH ₂ PO ₄ -K ₂ HPO ₄ (pH 7.0) containing 0.2M NaCl
Flow Rate :	0.7 mL/min
Temperature:	ambient
Detection:	UV at 280 nm

Diol-120, Diol-200, and Diol-300 are suitable for the separation or molecular weight determination of proteins with molecular weights of 10,000 to several hundred thousands.

For separation of proteins with molecular weights of 10,000 to several hundred thousands



1. Glutamate dehydrogenase (MW 290,000)
2. Lactate dehydrogenase (MW 142,000)
3. Enolase (MW 67,000)
4. Adenylate kinase (MW 32,000)
5. Cytochrome c (MW 12,400)

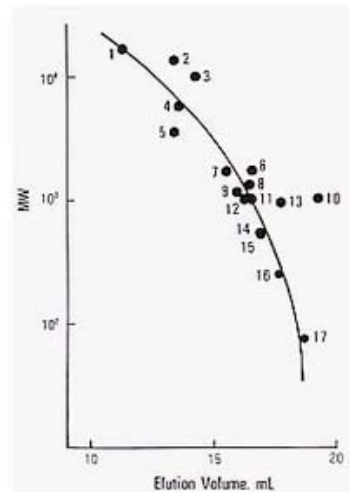
Column:	YMC-Pack Diol-SEC 500 x 8.0 mm.I.D.
Eluent:	0.1M KH ₂ PO ₄ -K ₂ HPO ₄ (pH 7.0) containing 0.2M NaCl
Flow Rate :	0.7 mL/min
Temperature:	ambient
Detection:	UV at 280 nm

For separation of peptides with molecular weights of 10,000 or less



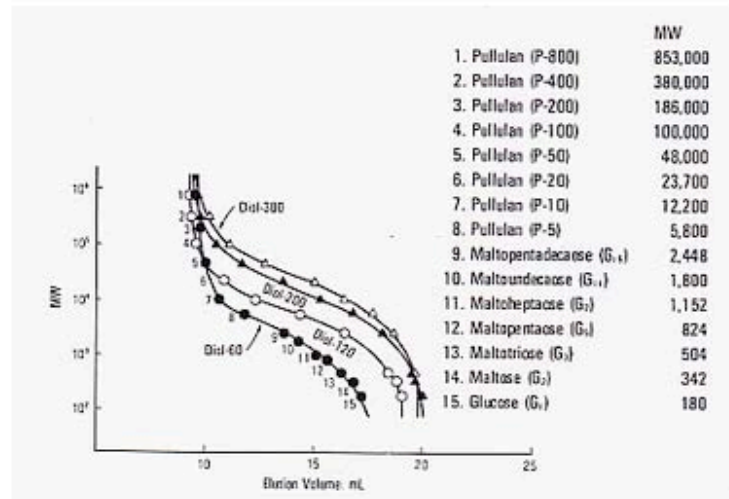
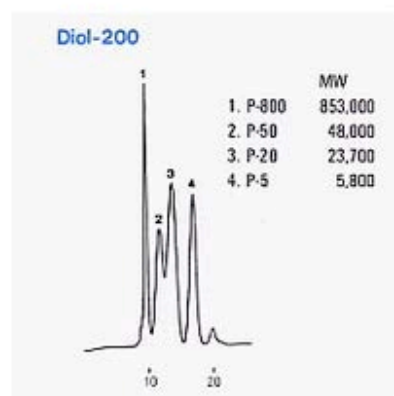
1. Insulin (Bovine)
2. Neurotensin
3. Angiotensin-II
4. Glycine

Column:	YMC-Pack Diol-60 500 x 8.0 mm.I.D.
Eluent:	0.1M KH ₂ PO ₄ -K ₂ HPO ₄ (pH 7.0) containing 0.2MNaCl/acetonitrile (70/30)
Flow Rate :	0.7 mL/min
Temperature:	ambient
Detection:	UV at 215 nm



- | | MW |
|---------------------|--------|
| 1. Myoglobin | 17,000 |
| 2. Ribonuclease A | 13,700 |
| 3. Cytochrome c | 12,400 |
| 4. Insulin (Bovine) | 5,700 |
| 5. Insulin B chain | 3,496 |
| 6. α-Mating factor | 1,684 |
| 7. Neurotensin | 1,672 |
| 8. Angiotensin-I | 1,296 |
| 9. CCK-octapeptide | 1,143 |
| 10. Bradykinin | 1,060 |
| 11. Angiotensin-II | 1,040 |
| 12. Oxytocin | 1,007 |
| 13. Angiotensin-III | 931 |
| 14. Met-enkephalin | 573 |
| 15. Leu-enkephalin | 555 |
| 16. Tetraglycine | 246 |
| 17. Glycine | 75 |

For molecular weight determination of sugars



For separation or molecular weight determination of neutral sugars and water-soluble high-molecular-weight compounds, Diol-60, Diol-120, Diol-200, and Diol-300 are useful individually or in combination.