



Zettachring 6, 70567 Stuttgart, Germany  
 Tel: +49-711-13257-0 Fax: +49-711-13257-89  
 E-Mail: [info.tbg@tosoh.com](mailto:info.tbg@tosoh.com)  
 Web: [www.tosohbioscience.com](http://www.tosohbioscience.com)

3604 Horizon Drive, Suite 100, King of Prussia, PA 19406, USA  
 Tel: +1-484-805-1219 Fax: +1-610-272-3028  
 E-Mail: [info.tbl@tosoh.com](mailto:info.tbl@tosoh.com)  
 Web: [www.tosohbioscience.com](http://www.tosohbioscience.com)

## PRODUCT SPECIFICATION SHEET

**Product Name:** Toyopearl® AF-Tresyl-650M (activated base resin for affinity chromatography)

**Part Numbers:**

|       |  |
|-------|--|
| 14471 | Toyopearl AF-Tresyl-650M, 65 µm, 5 g   |
| 14472 | Toyopearl AF-Tresyl-650M, 65 µm, 100 g |
| 14905 | Toyopearl AF-Tresyl-650M, 65 µm, 200 g |
| 14906 | Toyopearl AF-Tresyl-650M, 65 µm, 1 kg  |
| 18371 | Toyopearl AF-Tresyl-650M, 65 µm, 5 kg  |

**Product Description:** Toyopearl is a methacrylic polymer incorporating high mechanical and chemical stability. Resins are available as non-functionalised “HW” series resins for size exclusion separations, and derivatised with surface chemistries for alternative modes of chromatography such as ion exchange, hydrophobic interaction or affinity separations.

**Toyopearl AF-Tresyl-650M** is an activated support resin for affinity chromatography. The product is prepared by introducing tresyl groups onto Toyopearl HW-65. Tresyl-activated material is used to immobilize ligands with free amino or thiol groups, quickly and with high efficiency.

**Formulation:** Particulate resin (spherical), available in particle sizes (mean diameter): 65 µm = “M” grade, when swollen in aqueous solution. Supplied as dry, free-flowing powder.

### Physicochemical Specifications:

|   |  |
|---|--|
| ▪ Appearance                                      | White powder   |
| ▪ Particle Size Distribution (>80 % within range) | 40 – 90 µm for Toyopearl AF-Tresyl-650M  |
| ▪ Exclusion Limit                                 | < 5 x10 <sup>6</sup> Dalton (globular protein)                                       |
| ▪ Mean Pore Diameter                              | 1000 Å   |
| ▪ Pressure drop across the column                 | max. 7 bar (recommended)   |
| ▪ Operating Linear Flowrate                       | normally 60 – 600 cm/hour  |
| ▪ Ligand Density                                  | 80 µmol/g dry resin  |
| ▪ Protein Adsorption Capacity                     | ≥ 60 mg/g (Soybean trypsin inhibitor)  |
| ▪ Bacterial Count                                 | ≤ 100 CFU/mL   |
| ▪ Endotoxin Concentration                         | ≤ 10.0 endotoxin units/mL  |
| ▪ Pack sizes and type                             | 5 g, 100 g, 200 g<br>Packed in virgin Polyethylene container with Polypropylene cap. |
| ▪ Resin Volume per Container                      | 1g is equivalent to ~3.5 mL settled swollen resin volume                             |
| ▪ Shipping Conditions                             | dry, free-flowing powder   |
| ▪ Long Term Storage Conditions                    | dry at 4° C  |
| ▪ Foreign Substance                               | not observed, no visual evidence   |
| ▪ Eluable Matter                                  | < 0.1 %  |

**For detailed test procedures please refer to Regulatory Support File BB-MF-5888.**