

## APPLICATION NEWS

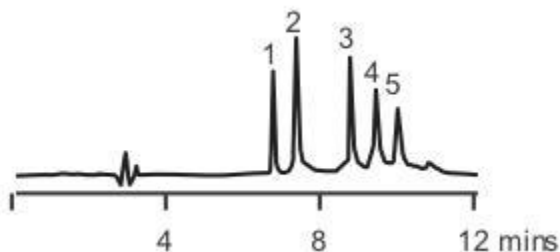
### MacroSep™ BIO-Gold HPR

**MacroSep™ BIO-Gold** packings are based on ultra-high purity spherical silica, state-of-the-art high density bonding and full endcapping produces the separation or purification of high molecular weight bio compounds such as proteins and peptides. Significant improvements in acidic and alkaline resistance has been achieved, so MacroSep BIO-Gold materials can be used for extended periods of time in acidic mobile phase condition and rinsed for recovery with NaOH containing buffer. MacroSep BIO - Gold columns are manufactured utilizing tight process control of the silica, bonding and column packing processes. The reproducible column packing method control provides exceptional efficiency, symmetry and reproducibility.

**MacroSep BIO - Gold HPR** significantly reduces the hydrophobic interaction of the stationary phase. This reduced interaction can yield less retention of hydrophobic biological molecules yielding better recoveries and quicker separations. HPR is the most hydrophilic of the MacroSep BIO-Gold phases.

MacroSep BIO - Gold HPR consists of unique perfluorinated aliphatic bonded groups which are highly hydrophilic and reduce the hydrophobic interaction of the stationary phase resulting in less retention of hydrophobic biological molecules with better recoveries and faster separations. Specially engineered for analysis of hydrophobic proteins, lipid peptides, polypeptides with aliphatic side chains and membrane-spanning peptides. In addition, HPR may be useful for fluorine modified biologics based upon a fluorophilicity interaction.

MacroSep™ BIO-Gold HPR 250 X 4.6 mm 5 μm 400Å  
Catalog # 1552G1-MSP-GLHPR



Column: MacroSep BIO - Gold HPR 5μm 400Å

Dimensions: 4.6x250mm

Mobile Phase: A: 0.01% TFA in H<sub>2</sub>O  
B: 0.01% TFA in ACN

Gradient: Time: % B: 0:25, 20:95

Flow Rate: 1.0mL/min

Detection: UV 214nm

1. Insulin
2. Trypsinogen
3. Lactalbumin
4. Myoglobin
5. Carbonic anhydrase