

**HYDROCELL RP 5G** and **RP 10G** are produced from highly cross-linked polystyrene-divinyl benzene (PS-DVB) spherical beads. The surface of the materials has been modified by hydrophilic coating to reduce the hydrophobicity. The small pores of these particles have been sealed completely to prevent the trapping of biomolecules.

- **RP 5G** is prepared from 5  $\mu\text{m}$ , 500  $\text{\AA}$  spherical PS-DVB particles with hydrophilic surface coating. This polymer provides optimum surface area with high separating efficiency for small proteins, polypeptides and oligonucleotides.

- **RP 10G** is prepared from 10  $\mu\text{m}$ , 500  $\text{\AA}$  spherical PS-DVB particles with hydrophilic surface coating. This polymer provides optimum surface area with high separating efficiency for polypeptides, proteins and oligonucleotides.

These materials are extremely stable and permit use of mobile phase pH from 1 to 14 and the maximum temperature limit is up to 80°C. Reversed phase chromatography is based on the discrimination by hydrophobicity of biomolecules and is a complementary technique to ion exchange and hydrophobic interaction chromatography.

**Scroll down for Chromatograms**

## Hydrocell RP 5G

### Peptide Standard

**Column:** 50 x 4.6 mm

**Mobile Phase:**

**A:** 5% Acetonitrile in 0.1 M Tris-HCl & 0.1% TFA

**B:** 50% Acetonitrile in 0.1 M Tris-HCl & 0.1% TFA

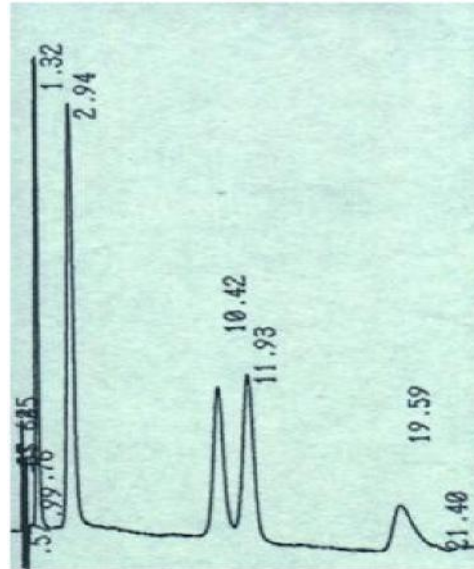
**Gradient:** Linear, 10-80% B in 35 minutes

**Flow Rate:** 1.0 mL/min

**Detection:** UV 280 nm

**Peak Identification:**

1. Gly-Tyr
2. Val-Tyr-Val
3. Methionine Enkephalin
4. Leucine Enkephalin
5. Angiotensin II



## Hydrocell RP 5G

### Antibacterial Mixture

**Column:** 50 x 4.6 mm

**Mobile Phase:**

**A:** 89% Potassium Citrate, 11% 0.2 M Potassium Phosphate

**B:** 95% Acetonitrile in Water

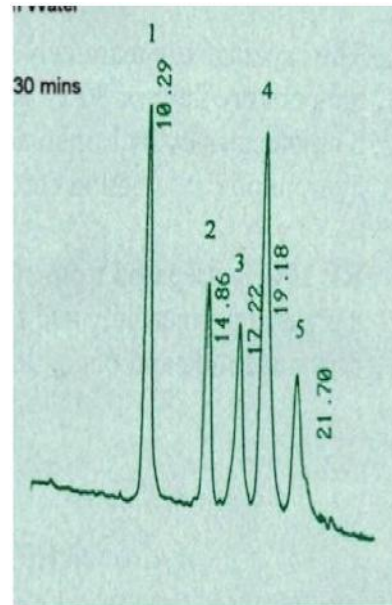
**Gradient:** 10-30% B in 30 minutes

**Flow Rate:** 1.0 mL/min

**Detection:** UV 280 nm

**Peak Identification:**

1. Sulfamerazine
2. Furazolidone
3. Sulfaquinoxaline
4. Sulfadimethoxine
5. Oxolinic Acid



## **Hydrocell RP 10G**

### **Protein Standard**

**Column:** 150 x 2.1 mm

**Mobile Phase:**

**A:** 5% Acetonitrile in 0.1% TFA

**B:** 95% Acetonitrile in 0.1% TFA

**Gradient:**

Linear, 20-70% B in 25 minutes

**Flow Rate:** 0.25 mL/min

**Detection:** UV 280 nm

**Peak Identification:**

1. Ribonuclease A
2. Cytochrome C
3. Lysozyme
4. Ovalbumin

