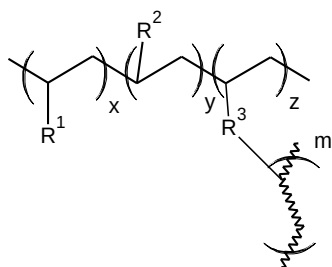


CLAIMS

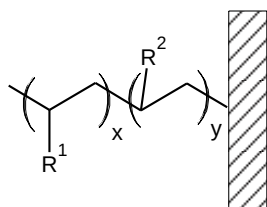
What is claimed is:

1. A polymer represented by the following chemical structure:



wherein R^1 is a residue of 2-acrylamido-2-methylpropane sulfonic acid represented by $-C(=O)NHC(CH_3)_2-CH_2SO_3H$; R^2 is a residue of N,N-dimethylacrylamide represented by $-C(=O)N(CH_3)_2$; R^3 is a residue of N,N'-methylenebisacrylamide represented by $-C(=O)NHCH_2NHC(=O)-$; x, y, and z are average molar fractions of each monomer in the polymer, where $y > x$; and wherein m denotes the same polymer chain attached at the other end of the linker.

2. The polymer of claim 1, wherein the polymer is attached to a solid support.
3. A polymer represented by the following chemical structure;



wherein R^1 is a residue of 2-acrylamido-2-methylpropane sulfonic acid represented by $-C(=O)NHC(CH_3)_2-CH_2SO_3H$; R^2 is a residue of N,N-dimethylacrylamide represented by $-C(=O)N(CH_3)_2$; x and y are average molar fractions of each monomer in the polymer, where $y > x$; and wherein m denotes the same polymer chain attached at the other end of the linker and wherein the polymer is grafted via covalent linkage onto a solid support shown as the rectangle.