

Abstract

A porous resin used to solid phase synthesis and a preparation method therefor, specifically being a porous resin having functional groups being an amino group or a hydroxyl group and a preparation method therefor. Using an olefin compound containing two cyano groups as a modified monomer, using a high internal phase emulsion as a pore-foaming agent, and performing suspension polymerization to prepare the porous resin. And then functionalizing the porous resin to obtain the porous resin having functional groups being an amino group or a hydroxyl group. Different from the existing preparation method, the modified monomer can make the distribution of the functional groups more uniform, and make the swelling degrees of the porous resin in different solvents close. The high internal phase emulsion pore-foaming agent can make the pore size distribution of the carrier narrower. The porous resin can be used as a solid phase synthesis carrier to prepare an oligonucleotide, and the use of the carrier is beneficial for improving the yield and purity of the oligonucleotide.

Figure 1