## Retinoid separation characteristics of molecular imprinted poly(methacrylic acid) beads prepared via suspension polymerization

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The suspension polymerization that uses perfluorocarbon liquid as the dispersing phase is promising to provide recognition sites because it gives no interaction between functional monomers or template and dispersing agent during molecular imprinting. The monomer of methacrylic acid (MAA) was cosslinked with ethylene glycol dimethyacrylate (EGDMA) in the presence of a template of all transretinoic acid to prepare molecular imprinted polymers. The prepared molecular imprinted polymer beads showed good performance in the HPLC separation of retinoid derivatives. Specific interactions such as hydrogen bonding and ion-pair interactions were the main functions for separation of objective molecules.