

# Initiator-Tightened Compositions

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## Description

Porous surfaces, as required for efficient (zero loss) separation/extraction of various chemical/biological samples, are currently not available as most of these surfaces have adsorption/clogging problem. Moreover, the porous surfaces utilized in some of commonly known separation techniques such as mass spectrometry and size exclusion chromatography are non-uniform & heterogeneous. As a result, they are not suitable for size based separation of small sized substances such as peptides and oligosaccharides. **This novel composition enables formation of surfaces with uniform, controllable and reproducible pores, for effective and efficient separation of such biological/ chemical substances.**

## Value Proposition

The composition:

- Overcomes a mixed-mechanism and pore-heterogeneity limitation of many current separation techniques
- Effectively handles, fractionates, extracts, concentrates or recovers selected components of many aqueous, semi-aqueous or non-aqueous samples
- Comprises a multi-layered gel based structure enabling very little or no loss of particles, which makes it preferable over other prior art compositions
- Would be commercially useful for applications such as chromatography, dialysis (especially for desalting) or electrophoresis, proteomics, drug discovery, vehicles for drug delivery, and vehicles for handling and cleaning cells

## Intellectual Property Status

Pending Utility Application 13/395,325

## License Status

Available for license