



Comparison of Major Lipid Raft Isolation Kits

Lipid rafts are important subcellular structures rich in cholesterol and sphingolipid and signaling proteins. Lipid rafts play a critical role in cellular transport and signal transduction. Traditional method of lipid raft isolation is tedious and time consuming. There are limited numbers of commercial kits for isolation of this important structure.

Brand/manufacturer	Brand# 1	Invent Biotech
Product Name	Caveolae/Rafts Isolation Kit	Minute™ Total Lipid Raft Isolation Kit for Mammalian Cells/Tissues
Mechanism of Isolation	Ultracentrifugation flotation	Spin column-based - floatation with a table top centrifuge
Average sample size	Cells (20-50 million)	Tissue (35 mg) Cells (20-30 million)
Number of buffers and reagents used	6	3
Buffer preparation prior to use	Required	Not required
Density gradient formation	Required	Not required
Ultracentrifugation	Required	Not required
Purity of Isolated Lipid Rafts	Total Detergent Resistant lipid Rafts	Total Detergent Resistant lipid Rafts
Approximate Protocol Time	>5 h	1 h