

Lipid Removal & Clarification for the Most Challenging Applications



That's why it has been cited in over 70 references, more than any other product in these most demanding applications.

Unlike other solid-phases,
Cleanascite™ does not have
significant protein binding making
its selectivity profile for lipids
unique in the bio-research
products industry. As a result, it is
ideal to clear lipid associated
matrix effects from human sera,
bile, ascites, and other high lipid
content sample types.

Removes Lipid Factors

Phospho-Lipids
>99% Cholesterol &
Triglycerides
Lipoproteins
Extracellular Vesicles
(Exosomes)

Cleanascite™

Solid-phase Aqueous Suspension
No Solvents, Freon or Chloroform
Standard Centrifuge
(Not Ultra) Protocols
Safe Disposal

Improved Assay Performance

- ◆ ELISA
- ◆ Immuno-capture
 - Microarrays
- ◆ LC-MS
- ◆ Cell Response



Cleanascite™ is derived through a proprietary formulation of metallic oxide derivatives. However, unlike other metallic oxides, Cleanascite™ does not have significant protein binding, making its selectivity profile for lipids un-rivaled in the bio-research products industry. As a result, it is ideal to clear lipid-associated matrix effects - including extracellular vesicles, which may influence quantification analysis and cell response assays.

Key References



Plasma/Serum Protein Biomarkers The authors aimed at simultaneously measuring intact endogenous-insulin and derived C-peptide, to help predict development of diabetes mellitus, as well as in differential diagnosis in cases of hypoglycemia. Cleanascite™ is shown both to improve LC-MS measurements, and validated in accordance with CLIA '88 guidelines. https://www.sciencedirect.com/science/article/abs/pii/S0009898116300183



Trypsin-digested Peptide Biomarkers The article states "Treatment of digested serum samples with two commercial lipid removal agents revealed variable effectiveness in reducing these artifacts, with one reagent (LRA; synthetic calcium silicate hydrate) revealing little to no effect...Serum digests treated with the second reagent (Cleanascite™) demonstrated the absence of these artifacts". https://www.sciencedirect.com/science/article/pii/S1748013222001426



Bile Proteomics The authors report methods to overcome the biological variability of analyzing a high number of bile samples. They concluded that delipidation yielded a considerable number of complementary protein identifications and that Cleanascite™ treatment was indispensable for insolution digestion methods.

https://www.sciencedirect.com/science/article/abs/pii/S1874391916305024?via%3Dihub

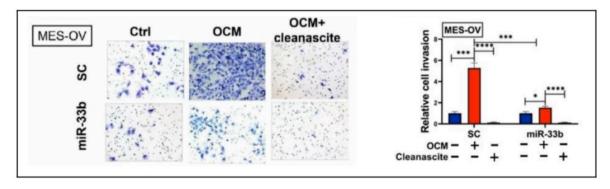
scientific reports

Depletion of Exosomes Offering a simple, efficient proteomic sample preparation technology for clearing lipid-associated macromolecules, the investigators explored the use of Cleanascite™ to deplete extracellular vesicles. The article states "Cleanascite-treatment of the secretome dramatically reduced ASC functional survival...".

https://www.tandfonline.com/doi/pdf/10.1080/20013078.2018.1463778?needAccess=true



Lipid Factors and Cancer Cell Response To examine whether fatty acids in OCM are the main source of energy for tumors, all fatty acids in OCM were first removed by **Cleanascite™** Lipid Removal Reagent. XTT cell viability analysis was performed and showed that the cell growth rate of ES-2 and MES-OV cells was remarkably reduced when cocultured in lipid-depleted OCM and "both miR-33b overexpression and depletion of fatty acids by **Cleanascite in OCM significantly impaired ovarian cancer cell migration and invasion**. https://www.mdpi.com/2072-6694/13/19/4795/htm



A complete list of **Cleanascite**™ references can be found on our website at: https://www.biotechsupportgroup.com/References-s/138.htm#delipidation

For more information on all of Cleanascite™, visit: https://www.biotechsupportgroup.com/Cleanascite-Lipid-Removal-Reagent-p/x2555.htm