

CONCENTRATE



The InnovaPrep Hydrosol concentrator has been invented and developed by Page Applied Research and AlburtyLab, Inc.

Developed primarily for the concentration of suspended biological particles such as proteins/toxins, viruses, DNA, and bacteria in the size range of ~ 0.001 micron to 20 microns diameter.



- Fast
- Rugged
- Versatile
- Reliable
- Compact
- Portable
- Network



InnovaPrep can be integrated with other sampling and detection systems.

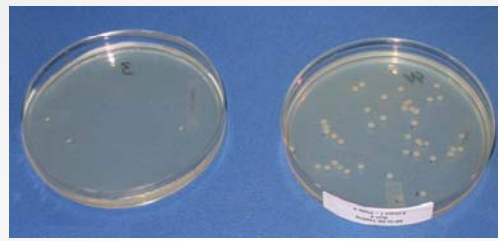
The Macro To Micro Interface

INTRODUCTION:

A novel rapid, efficient one-pass method, the InnovaPrep, (Pat. Pend.) has been developed for concentrating particles, and especially biological particles suspended in liquid, from a dilute feed suspension into a more concentrated sample suspension.

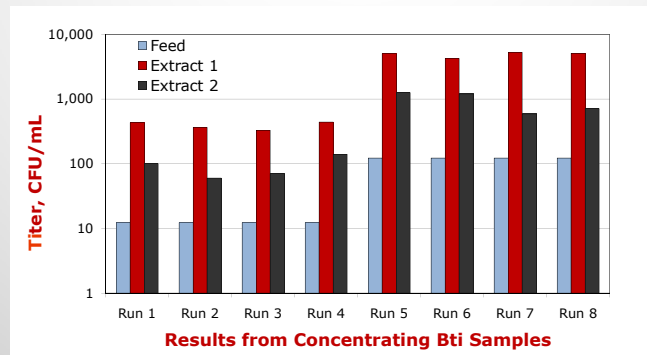
This separates the particles from the initial fluid and delivers the particles in a known volume of fluid. The process is highly efficient and effective over a wide range of particle sizes from 50 kD to 5 microns.

Plated sample of Bti before and after 73x concentration with the InnovaPrep



Feed - 6 CFU/mL

Concentrate - 440 CFU/mL



| Particle Size (µm) | Represented Particle | Efficiency |
|--------------------|---|------------|
| 4.5 | Agglomerates of Bacteria | 95% |
| 1.0 | Single Bacteria | 85% |
| 0.05 | Upper Limit for Viruses | 75% |
| 0.025 | DNA, Lower Limit for Viruses and Prions | 60% |

SUMMARY:

The InnovaPrep is a demonstrated rapid, effective hydrosol concentration technique. It reliably concentrates aqueous particle suspensions into final volumes as small as 10 µl, appropriate for modern rapid analysis techniques. A Network capable open source operating system facilitates integration. Research units are currently being built and tested and integration of models is supported by:

InnovaPrep Division
AlburtyLab, Inc.,
Drexel, MO
816-619-3374
apage@innovaprep.com