

Rapid concentration of microorganisms in liquid samples

SAY GOODBYE TO TEDIOUS AND
TIME-CONSUMING SAMPLE PREP!



Sample-to-result in a single shift
Exponential concentration up to 10,000x
Faster, easier workflows

- Highly efficient for viruses, bacteria, fungal spores and fragments, whole cells, exosomes, parasites and more
- Improve detection of trace microorganisms
- Optimized workflow to stay ahead of contamination and illness threats

Concentrating Pipette Select

CP SELECT™



Processes sample volumes up to 5L

No cross contamination between samples

Robust concentration and simultaneous buffer exchange

Customizable protocols and settings to optimize for various matrices

Repeatable results between users

Get rid of cumbersome centrifugations and culture enrichment steps

Simplifies concentration from complex matrices (e.g. carbonated, turbid or clinical specimens)

Concentrated elution volumes as low as 200 ul, irrespective of your starting sample volume

Delivers exceptional Concentration Factors (CF) via the combination of exponential concentration and high efficiency recovery of captured particles

Wet Foam Elution™

PATENTED TECHNOLOGY

InnovaPrep® products use a patented technology for exceptionally fast and efficient concentration based on:

- Capture of microorganisms or particles from large volumes of liquid or air using robust filtration
- Instant recovery using Wet Foam Elution™ (WFE)

WFE uses a weak surfactant as a foaming agent and dissolved gas packaged in quick release canisters to dispense a powerful, yet gentle elution.

During elution, a small volume of buffer is quickly dispensed — expanding 6x into a viscous wet foam that lifts the trapped particles from the filter. Within seconds, the foam returns to a liquid, ready for downstream culture, molecular, sequencing or other advanced detection methods. The exceptional characteristics of the wet foam enable concentration factors, up to 10,000x.

FluidPrep Elution Buffer

- Two standard elution buffers: PBS & Tris
- Extremely gentle for optimal results
- Custom formulations are available

Workflow

CP SELECT™



Collect

Collect your liquid sample in sample container.



Prep

Capture particles onto a hollow fiber filter (Concentrating Pipette tip). In just five seconds, efficiently elute particles from the filter.



Detect

The eluted samples are perfect for both traditional culture or rapid molecular analysis methods, including PCR and next-generation sequencing.

Prep Details

- Using robust filtration and InnovaPrep's patented Wet Foam Elution™ process, the system delivers a highly concentrated sample that improves sensitivity for detection.
- Use the **CP Select** for optional second stage concentration to further optimize concentration factor. Optimized workflow to stay ahead of contamination and illness threats

Effective for

- **Viruses**
- **Bacteria**
- **Fungal spores & fragments**
- **Whole cells**
- **Exosomes**
- **Parasites**
- **More...**

Applications

DISEASE
MONITORING

ENVIRONMENTAL
MONITORING

BEVERAGE
& BREWING

ANIMAL HEALTH
& AQUACULTURE

PHARMA

BIOSURVEILLANCE

DRINKING WATER
& WASTEWATER

FOOD
SAFETY

CLINICAL
RESEARCH

Sample Compatibility of Wet Foam Elution

WITH DOWNSTREAM DETECTION METHODS

Microscopy

- Light
- Fluorescence
- Electron

Immunology

- Serotyping
- FISH
- Flow Cytometry
- ELISA
- Magnetic Beads

Culture

- Single-shift Enrichment (Screening)
- Selective (Identification)

Biochemistry

- ATP
- Biotyping
- Fermentation
- Enzyme Detection
- Mass Spectrometry

Molecularbiology

- Genetic Typing
- 16S DNA
- DNA/RNA including NGS
- PCR, RTPCR, ddPCR

CONCENTRATING PIPETTE SYSTEM

FLUIDPREP[™]
by INNOVAPREP

Transform Your Workflow To Reduce Sample-to-result Time

Detecting biological contaminants and pathogens requires effective sample prep and rapid sample-to-result turnaround. Traditional sample preparation is time-consuming and recovery of target organisms is hindered by matrix complexity and sample volume. Our patented sample prep technology simplifies sample preparation and streamlines your ability to detect biological targets with greater sensitivity and speed.



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