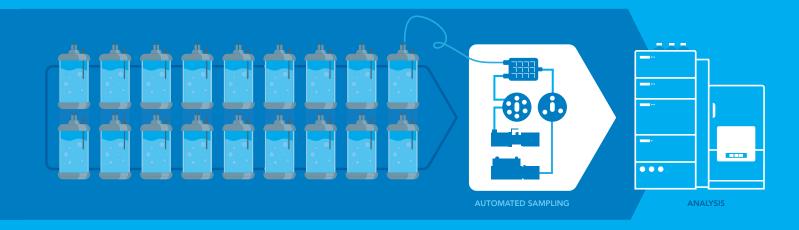
NEW TECHNOLOGY FOR AUTOMATED ASEPTIC SAMPLING FROM A BIOREACTOR:

## **Enabling Hands-Free Sampleto-Answer PAT Workflows**



#### **FLEXIBLE SCALABILITY**

Sample from 1 to 18 Bioreactors via a Centralized Hub

#### SAMPLING TECHNOLOGY

IDEX Health & Science Sampling Technology for Custom Integration into OEM Platforms

# OEM-Customizable Technology

#### FROM IDEX HEALTH & SCIENCE

Our solution enables connectivity to sample prep or analytical instruments for completely automated PAT workflows.



System can scale up to 18 bioreactors using one central valve



Central valve and pump distribute sample to analysis and/or fraction collection

#### **ADVANTAGES FOR OEM PARTNERS**

- > Elegant bill of materials enabling a compact form factor
- Can be easily integrated into cell culture, sample prep, analytical instruments, or stand-alone products
- Available exclusively to commercial OEM partners
- > Prototype systems available for demo

#### **TECHNICAL ADVANTAGES**

- ) Minimal sample consumption (less than 100 μL)
- Completely degassed sample optimized for analysis
- Sampling accuracy is maintained regardless of distance from bioreactor, enabling flexible placement
- > No peristaltic pump to induce cell damage



## **Aseptic Performance**



Day 1

**BIOREACTOR** 



Sterility demonstrated up to 100 days



Testing with microbial growth medium



Sampling 2-4x per day



Sparging low volume of sterilized air through sampling probe



Turbidity of growth medium monitored continuously for verification of aseptic performance



**Day 100** 

**BIOREACTOR** RUN



**Day 101** 

**BIOREACTOR** 

Intentional Sterility Breach

## **IDEX Health & Science Technology Available** for **OEM** Integration



We offer modular sampling technology that can be integrated into platforms for cell culture, analytical, or sample prep applications.



**CONTACT OUR EXPERTS** TO LEARN MORE **ABOUT OUR ASEPTIC SAMPLING CAPABILITIES** 

idex-hs.com/contact