

#### About us



Mission: design & manufacture aseptic process equipment utilizing (engineering) know-how in automation, integration & digitalization

10+

100+

**25** 

# Years of Experience



Single Use Equipment Automation & Integration

### **Projects**



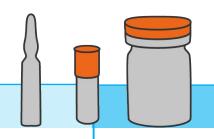
Production
Walk in Incubators

#### **Collaborators**



RABS, LAF & Grade A continuity

# Cryogenic vials sampling



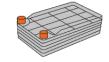
#### Traditional Way

- Open system
- Manual operation
- Contamination risk
- Highly human dependent
- Affected by environmental factors (air flow disturbance)



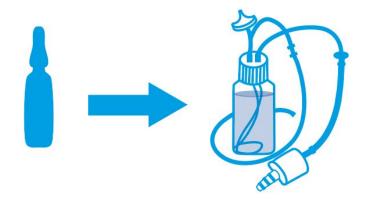






Cryovials (glass ampoule, cryotubes, Closed Vial®) are sampled in biological safety cabinet or isolator

- **Now: BECARV's Solution**
- + Directly sampled in a closed system
- + Closed system in C (Environment independent)
- Low deviation (automation)
- + High reproducibility



Cryovials (glass ampoule, cryotubes, Closed Vial®) are sampled in **Aseptic Sampling Hub** to the **final container** 

### Aseptic Sampling Hub Overview

#### Fully validated Equipment & Disposables

#### 1. Hardware

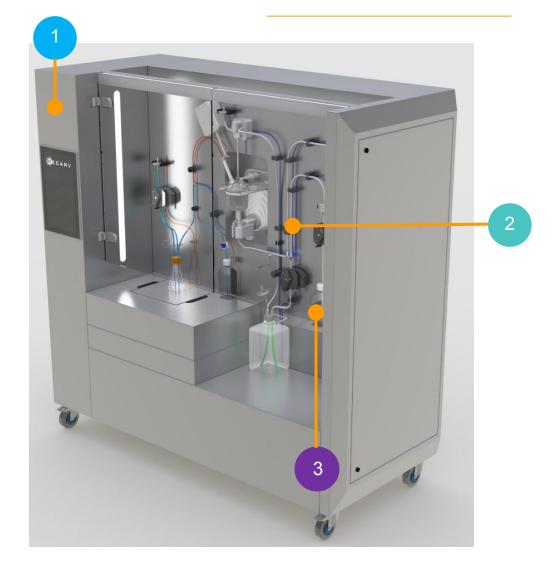
- Equipment performing automated cycle
- Connections and traceability to EBR

#### 2. Disposable kit

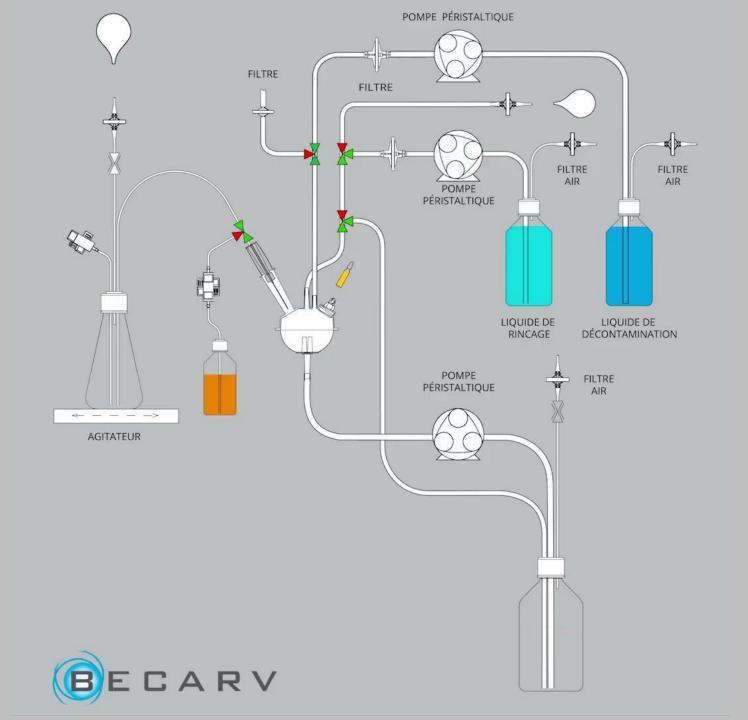
- Single-use kit, closed system
- Gamma-irradiated

#### 3. Disinfection and rinsing agents

- Blend of Hydrogen Peroxide (H<sub>2</sub>O<sub>2</sub>) + Peracetic acid
- Water for injection



**A new option** for sampling vial content in a closed, automated, digital environment. <u>Applications</u>: cell culture seeding, media preparation, dosing...



#### Gains with the Hub

# Productivity

- Standardization of operations = less operator dependency & variability (robotization)
- Higher predictability & reproducibility of operations (automation)

# Control & Quality

- Less contamination & batch loss risk (robotization, closed system)
- Lower deviation risks during operations (automation)
- Higher traceability of operations & simplified excursion management (digitalization)

- CAPEX & OPEX costs thanks to closed system allowing for operations in grade C/D
  - Reduced facility construction and/or zone maintenance costs
  - Modularity of zones
  - Less stringent Environmental Monitoring Control
  - Lower operator gowning requirements incl. training

# Safety of operators:

Improved Environment Health Safety (e.g., robotized vial cracking)

All of which lead to time and cost gains

### Thank you. Want to learn more?

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