

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2025
 DateRun: 03/20/2025
 Experimenters: Amelia Wagner
 ClientType: Brewery
 ProjectNumber: Project #1
 Substrates: Stainless Steel
 PartType: Part
 Contaminants: Food
 Cleaning Methods: Low Pressure Spray
 Analytical Methods: Visual

Purpose: Onsite testing of safer alternative to caustic cleaners in removing soil from fermenting tanks through CIP

Experimental Procedure: The testing took place onsite in one of Portico's fermenting tanks after moving the desired product into kegs from the tank leaving behind yeast and hops. The Virdivis FB1000 was tested using Portico's CIP method, utilizing a mobile pump to circulate the cleaner through CIP balls allowing for low pressure spray. The recommended dilution of the Virdivis concentrate is 20% or 26oz/gallon. Portico's fermenting tanks have a 10 gallon capacity, so they use 7 gallons of water in order to leave room for circulation. Seven gallons of water and 1.4 gallons of Virdivis FB1000. The cleaning solution was heated to 120F, and the CIP was run for 10 minutes.

Results: After 10 minutes, the tank was opened to find that the cleaning product had foamed too much to allow for any circulation of the product, preventing any soil removal.

Summary:

| | | | | | |
|--|-----------------------------|---------------|--------------------|--------------------------|---|
| Substrates: | Stainless Steel | | | | |
| Contaminants: | Food | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Innovative Chemical Technologies, Inc. | Virdivis FB1000 (ICT 1648L) | 20 | | <input type="checkbox"/> | Too much foam to allow for effective cleaning |

Conclusion:

Future possible steps include:

- testing Virdivis FB1000 on tap lines and small parts
- retesting this application at 150-180F
- retesting this application with a defoaming agent/surfactant added to the Virdivis FB1000