CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2025

DateRun: 11/20/2025

Experimenters: Amelia Wagner

ClientType:

ProjectNumber: Project #1

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Food

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To test the efficacy of safer alternatives within the cleaning process for the Mash Tun. (Redo of previous testing)

Experimental Procedure: Three stainless steel coupons were assigned to each cleaner being tested. The coupons had their initial weights recorded. The coupons were then soiled with runoff from the Mash Tun by spreading 2ml of the runoff liquid on the bottom third of each coupon using a pipette. The coupons were then baked in the oven for 2 hours at 170F to simulate the Mash in brewing process. After the coupons were removed from the oven, they were weighed again and had their dirty weights recorded. The coupons were then subjected to 20 mins of immersion in their respective cleaners with a stir bar set to 1,000 rpm to simulate agitation caused by CIP balls within the process. After cleaning, each coupon was rinsed under a stream of tap water for 10 seconds to remove any potential residue from the cleaners. After rinsing, the coupons were left to fully air dry before having their clean weights recorded.

Tested Cleaners:

A. Surface Cleanse 930 2% (Heated 130F)

B. EcoSafeway High pH Cleaner 5% (Unheated)

C. BevSafe CR 4.5% (Heated 120F)

Results:

Cleaner	Initial wt of cont.	Final wt of cont.	%Cont Removed	% AVG
Surface Cleanse 930 2% (130F)	0.0437	0.0000	100.00	99.89
	0.0423	0.0000	100.00	
	0.0311	0.0001	99.68	
EcoSafeway High pH Cleaner 10% (unheated)	0.0487	0.0008	98.36	98.69
	0.0504	0.0004	99.21	
	0.0540	0.0008	98.52	
BevSafe CR 4.5% (120F)	0.0490	0.0003	99.39	99.52
	0.0478	0.0004	99.16	
	0.0437	0.0000	100.00	

Summary:

Substrates:	Stainless Steel
Contaminants:	Food

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
International Products Corporation	Surface Cleanse Concentrated Neutral 930	2%	99.89	☑	130F
Eco Safeway	Eco Safeway High pH Cleaner	10%	98.69	☑	unheated
Environmental Manufacturing Solutions, LLC	BevSafe CR (Beverage Line & Tank Cleaner)	4.5%	99.52	☑	120F

Conclusion: All cleaners tested were highly efficient in removing mash tun run off from stainless steel.