

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2018

DateRun: 02/03/2018

Experimenters: James Keats, Justin Rainaud

ClientType:

ProjectNumber: Project #2

Substrates: Stainless Steel

PartType: Coupon

Contaminants: Blood

Cleaning Methods: Immersion/Soak

Analytical Methods: Gravimetric

Purpose: To evaluate effectiveness of the provided cleaners in regards to removing synthetic blood from stainless steel.

Experimental Procedure: Twelve pre-weighed stainless-steel coupons were soiled with synthetic blood using a swab and allowed to air dry for 24 hours before recording dirty weights. Two additional coupons were weighed but not soiled to provide a control. Two cleaners were prepared using the specified dilutions and temperature: Biogone (RTU at 22 C); Biogone (1:1 at 22 C).
Six coupons per cleaner were immersed in a beaker for two minutes. Coupons were rinsed in a DI water bath and dried for 48 hours before recording clean weights.

| Cleaner | Initial Wt | Final Wt | %Removal | Average |
|-------------|------------|----------|----------|---------|
| Biogone RTU | 0.0020 | 0.0005 | 75.00 | 65.07 |
| | 0.0029 | 0.0013 | 55.17 | |
| | 0.0101 | 0.0015 | 85.15 | |
| | 0.0143 | 0.0009 | 93.71 | |
| | 0.0037 | 0.0023 | 37.84 | |
| | 0.0062 | 0.0035 | 43.55 | |
| | 0.0046 | 0.0003 | - | Control |
| Biogone 1:1 | 0.0067 | 0.0035 | 47.76 | 40.23 |
| | 0.0089 | 0.0043 | 51.69 | |
| | 0.0132 | 0.0082 | 37.88 | |
| | 0.0075 | 0.0033 | 56.00 | |
| | 0.0092 | 0.0092 | 0.00 | |
| | 0.0052 | 0.0027 | 48.08 | |
| | 0.0019 | 0.0008 | - | Control |

| | | | | | | |
|----------------------|--------------------------------|------------------------------------|--------------------|-------------------------------------|----------------------|--|
| Summary: | | Substrates: Stainless Steel | | | | |
| | | Contaminants: Blood | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| Case Medical Inc. | BioGone Cleaner/Decontaminator | 100 | 65.07 | <input checked="" type="checkbox"/> | | |
| Case Medical Inc. | BioGone Cleaner/Decontaminator | 50 | 40.23 | <input type="checkbox"/> | | |

Conclusion: Both dilutions of Biogone were not effective. The RTU dilution was about 25% more effective than the 1:1 dilution. The same ranking was observed using visual analysis.