

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2011  
 DateRun: 09/05/2011  
 Experimenters: Jason Marshall  
 ClientType: Consultant  
 ProjectNumber: Project #1  
 Substrates: Stainless Steel  
 PartType: Coupon  
 Contaminants: Soaps  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Black light

Purpose: To visually test the level of fluorescence of the provided cleaning products at varying concentrations

Experimental Procedure: Part 1: Using a small amount of Mr. Clean Multi-Surfaces Antibacterial on Wypall X60 reinforced wipe, a stainless steel coupon was wiped. The coupon was placed in the UV illumination chamber in order to check for the presence of any fluorescing cleaner.  
 Part 2: A follow up test was performed to detect the presence of any cleaning residue. Three clean stainless steel coupons, one control and two experimental, were taken. The control coupon was dry wiped with a clean wipe. The first experimental coupon was wiped with Mr. Clean Multi-surfaces Antibacterial. The second experimental coupon was wiped with tap water. After the coupons were allowed to dry for 30 seconds, a small amount of Glo Germ powder simulated germs was sprinkled so as to cover the entire surface of the coupons. Any extra powder was removed from the coupons by gentle tapping on the surface. They were then placed in the UV illumination box and visual observations were made.

Results: Part 1: Negligible fluorescence was observed on the stainless steel coupon due to low concentration of the cleaning agent.  
 Part 2: Glo Germ powder was effective in demonstrating a higher level of residual cleaner on the experimental coupons. The amount of residual cleaner observed was higher for Mr. Clean than with the water.

Summary:

|                      |                                       |               |                    |                          |                      |
|----------------------|---------------------------------------|---------------|--------------------|--------------------------|----------------------|
| <b>Substrates:</b>   | Stainless Steel                       |               |                    |                          |                      |
| <b>Contaminants:</b> | Soaps                                 |               |                    |                          |                      |
| <b>Company Name:</b> | <b>Product Name:</b>                  | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>        | <b>Observations:</b> |
| Procter & Gamble     | Mr Clean Multi-Surfaces Antibacterial | 100           | 0.00               | <input type="checkbox"/> | leaves residue       |

Conclusion: Water leaves a smaller amount of residue than Mr. Clean. Mr. Clean leaves a greater residue that is not detectable at a very small concentration under UV illumination.