

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2018

DateRun: 08/10/2018

Experimenters: Vinh Tran, Justin Rainaud, Othon Pagounes, Ted Kearney

ClientType: Cleaner Manufacturer

ProjectNumber: Project #3

Substrates: Ceramics, Glass/Quartz

PartType: Coupon

Contaminants: Food

Cleaning Methods: Mechanical Agitation

Analytical Methods: Visual

Purpose: To evaluate the effectiveness of the AGAE Dishwasher Gel against Cascade Complete Dishwasher Gel and Seventh Generation Dishwasher Gel on the removal of Food Soil from ceramic plates and glassware by automatic dishwashing.

Experimental Procedure: All ceramic plates and glassware were previously cleaned and dried when 40 g of Soil DCC 05A Food (80% Margarine and 20% Non-Fat Powdered Milk) was evenly distributed onto six plates. The mechanical dishwasher was running previously to increase the temperature to 75° F, for the testing. The six soiled plates were placed on the lower rack uniformly, and six tall glass tumblers and four small glass tumblers were placed uniformly on the upper rack. The detergent slot was filled with the respective dishwasher gel and the test was then run for 42 minutes. After the cycle was completed the six tall glass tumblers and the four small glass tumblers were removed and inspected for spotting and filming by three examiners, and placed in their exact former locations. The six ceramic plates were re-soiled to the initial soil amount of 6.66 g and also placed in their former locations. The process was repeated five times for each dishwasher gel.

The following rating system was used:

| Rating | Spotting | Filming |
|--------|------------------------------|----------|
| 1 | No Spots | None |
| 2 | Spots and Random | Barely |
| 3 | About ¼ of Surface Covered | Slight |
| 4 | About ½ of Surface Covered | Moderate |
| 5 | Virtually Completely Covered | Heavy |

Results:

AGAE Dishwasher Gel

| Cycle 1 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 4.5 | 4 | 4 | 4 | 3.5 | 4 | 2.89 | 3.89 |
| | | 2 | 2 | 3 | 3.5 | 5 | 3 | 3 | | |
| | | 3 | 2 | 2.5 | 3 | 4.5 | 4 | 4 | | |
| | | 4 | 2 | 4 | 3 | 3.5 | 3 | 3 | | |
| | | 5 | 2.5 | 2 | 3 | 5 | 3.5 | 4 | | |
| | | 6 | 2 | 2.5 | 2.5 | 5 | 4 | 4 | | |
| | Small Glass | 1 | 2 | 1.5 | 3 | 2 | 2 | 3 | 2.54 | 2.63 |
| | | 2 | 2 | 3 | 2.5 | 2 | 2 | 3 | | |
| | | 3 | 2.5 | 3.5 | 3 | 2 | 4 | 3 | | |
| | | 4 | 3 | 2 | 2.5 | 2.5 | 3 | 3 | | |

| Cycle 2 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|---------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 4.5 | 4 | 3.5 | 4 | 3.5 | 3.5 | 3.58 | 3.53 |
| | | 2 | 3.5 | 4 | 4 | 4.5 | 3 | 3.5 | | |
| | | 3 | 4 | 3 | 4 | 4.5 | 5 | 4 | | |

CLEANING LABORATORY EVALUATION SUMMARY

| | | | | | | | | | | |
|--|-------------|---|-----|-----|-----|-----|-----|-----|------|------|
| | | 4 | 3 | 3 | 3 | 2.5 | 4 | 3 | | |
| | | 5 | 5 | 4.5 | 4 | 2.5 | 3.5 | 4 | | |
| | | 6 | 2 | 3 | 2.5 | 2 | 3 | 3.5 | 3.50 | 3.50 |
| | Small Glass | 1 | 2.5 | 3.5 | 2.5 | 4 | 4 | 3.5 | | |
| | | 2 | 3 | 4 | 3 | 4.5 | 3.5 | 3.5 | | |
| | | 3 | 5 | 4.5 | 4 | 3 | 3.5 | 3 | | |
| | | 4 | 2 | 4 | 4 | 2 | 4 | 3.5 | | |

| Cycle 3 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 3.5 | 3.5 | 4 | 3.5 | 2.5 | 3.67 | 3.81 |
| | | 2 | 4 | 4 | 4 | 4 | 3.5 | 4 | | |
| | | 3 | 2 | 3.5 | 2.5 | 5 | 4 | 3.5 | | |
| | | 4 | 4 | 4 | 3.5 | 3 | 3.5 | 3 | | |
| | | 5 | 4.5 | 5 | 4 | 3.5 | 5 | 4.5 | | |
| | | 6 | 4 | 4 | 3 | 4.5 | 4 | 3.5 | 4.42 | 3.96 |
| | Small Glass | 1 | 4 | 4.5 | 4 | 3 | 4 | 4 | | |
| | | 2 | 3 | 4 | 3.5 | 3 | 4.5 | 4 | | |
| | | 3 | 5 | 5 | 5 | 5 | 4.5 | 4 | | |
| | | 4 | 5 | 5 | 5 | 3 | 4.5 | 4 | | |

| Cycle 4 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3.5 | 4 | 4 | 3 | 3 | 2.5 | 3.97 | 3.25 |
| | | 2 | 5 | 4.5 | 4 | 4.5 | 3 | 3.5 | | |
| | | 3 | 3.5 | 3.5 | 3.5 | 3 | 2 | 3 | | |
| | | 4 | 4 | 4.5 | 3.5 | 3 | 3 | 3 | | |
| | | 5 | 4 | 3.5 | 4.5 | 3.5 | 4 | 4.5 | | |
| | | 6 | 4.5 | 3.5 | 4 | 4.5 | 2.5 | 3 | 4.13 | 3.17 |
| | Small Glass | 1 | 5 | 4.5 | 4.5 | 3 | 4 | 4.5 | | |
| | | 2 | 2 | 4 | 4.5 | 2 | 3.5 | 3 | | |
| | | 3 | 5 | 4 | 3.5 | 3 | 3.5 | 3 | | |
| | | 4 | 4 | 4.5 | 4 | 3 | 3 | 2.5 | | |

| Cycle 5 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3.5 | 3 | 3 | 3 | 3.5 | 2.5 | 3.83 | 3.25 |
| | | 2 | 3 | 3.5 | 4 | 2.5 | 3.5 | 3.5 | | |
| | | 3 | 4 | 4 | 4 | 3 | 3.5 | 4 | | |
| | | 4 | 4 | 4 | 3.5 | 4 | 2.5 | 2.5 | | |
| | | 5 | 4 | 4 | 4 | 4.5 | 2.5 | 3 | | |
| | | 6 | 5 | 4.5 | 4 | 4 | 3.5 | 3 | 4.38 | 3.67 |
| | Small Glass | 1 | 5 | 4.5 | 4 | 4.5 | 3 | 3 | | |
| | | 2 | 5 | 4 | 4 | 5 | 2.5 | 3 | | |
| | | 3 | 4.5 | 5 | 4.5 | 4 | 3.5 | 3.5 | | |
| | | 4 | 4.5 | 4 | 3.5 | 4 | 4 | 4 | | |

Cascade Complete Dishwasher Gel

| Cycle 1 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | | | | | | | | 2.36 | 1.94 |

CLEANING LABORATORY EVALUATION SUMMARY

| | | | | | | | | | | |
|--|-------------|---|-----|-----|-----|-----|-----|-----|------|------|
| | | 1 | 2 | 2.5 | 2 | 2 | 1.5 | 2 | | |
| | | 2 | 3 | 2.5 | 2 | 2 | 2 | 2 | | |
| | | 3 | 2 | 3 | 3 | 1.5 | 2 | 2.5 | | |
| | | 4 | 2 | 2.5 | 2 | 2 | 1.5 | 2 | | |
| | | 5 | 2.5 | 2.5 | 3 | 2 | 2 | 2 | | |
| | | 6 | 3 | 1.5 | 1.5 | 2 | 1.5 | 2.5 | 2.33 | 2.29 |
| | Small Glass | 1 | 2.5 | 2.5 | 2 | 1.5 | 1.5 | 2 | | |
| | | 2 | 3 | 2 | 1.5 | 3.5 | 3 | 2 | | |
| | | 3 | 3.5 | 3 | 2 | 3.5 | 3 | 2.5 | | |
| | | 4 | 2.5 | 2 | 1.5 | 2 | 1.5 | 1.5 | | |

| Cycle 2 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 2 | 2 | 1.5 | 2 | 2 | 1.5 | 2.58 | 1.83 |
| | | 2 | 3 | 2.5 | 2 | 3 | 2 | 2 | | |
| | | 3 | 3.5 | 3 | 2 | 2 | 2 | 1.5 | | |
| | | 4 | 3 | 3 | 2.5 | 2 | 1.5 | 1.5 | | |
| | | 5 | 3.5 | 3.5 | 3 | 2 | 1.5 | 1.5 | | |
| | | 6 | 2.5 | 2 | 2 | 2 | 1.5 | 1.5 | 2.96 | 1.92 |
| | Small Glass | 1 | 2 | 2 | 2.5 | 1.5 | 1.5 | 2 | | |
| | | 2 | 2.5 | 3 | 2.5 | 2 | 1.5 | 1.5 | | |
| | | 3 | 4.5 | 3.5 | 3 | 3 | 2 | 2 | | |
| | | 4 | 4 | 3.5 | 2.5 | 2 | 2 | 2 | | |

| Cycle 3 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 2 | 2 | 2 | 2.5 | 2 | 1.5 | 2.42 | 2.03 |
| | | 2 | 2.5 | 2.5 | 2 | 2 | 2.5 | 2.5 | | |
| | | 3 | 2.5 | 2 | 1.5 | 2.5 | 1.5 | 1.5 | | |
| | | 4 | 3 | 2.5 | 2 | 3 | 2 | 1.5 | | |
| | | 5 | 3 | 3 | 2.5 | 2 | 2 | 2 | | |
| | | 6 | 3 | 2.5 | 3 | 1.5 | 1.5 | 2.5 | 3.54 | 2.42 |
| | Small Glass | 1 | 4 | 3.5 | 3.5 | 3 | 2 | 2.5 | | |
| | | 2 | 4 | 2 | 2.5 | 3 | 2.5 | 2.5 | | |
| | | 3 | 4.5 | 4 | 4 | 2.5 | 2 | 2.5 | | |
| | | 4 | 4 | 3.5 | 3 | 2 | 2.5 | 2 | | |

| Cycle 4 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|-------------|--------------|-----------------|------------|------------|----------------|------------|------------|------------------|-----------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 2 | 1.5 | 2 | 2 | 1.5 | 2.39 | 1.94 |
| | | 2 | 2 | 2 | 1.5 | 2 | 3 | 2 | | |
| | | 3 | 3.5 | 2.5 | 2 | 2 | 1.5 | 1.5 | | |
| | | 4 | 3 | 3.5 | 3 | 2 | 2 | 2 | | |
| | | 5 | 3 | 2.5 | 2.5 | 2 | 2.5 | 2 | | |
| | | 6 | 2 | 1.5 | 2 | 2 | 1.5 | 1.5 | 3.67 | 2.50 |
| | Small Glass | 1 | 4 | 3.5 | 3 | 2 | 3 | 2.5 | | |
| | | 2 | 3.5 | 2 | 2.5 | 2.5 | 2 | 2 | | |
| | | 3 | 4 | 4 | 3.5 | 2.5 | 2.5 | 2.5 | | |
| | | 4 | 4.5 | 5 | 4.5 | 2.5 | 3 | 3 | | |

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| Cycle 5 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 2.5 | 1.5 | 2 | 2 | 1.5 | 2.67 | 1.97 |
| | | 2 | 3.5 | 1.5 | 2 | 2 | 2 | 2 | | |
| | | 3 | 2.5 | 2.5 | 2 | 2 | 2 | 1.5 | | |
| | | 4 | 3 | 3 | 2.5 | 2 | 1.5 | 2 | | |
| | | 5 | 4 | 3.5 | 3 | 2 | 2.5 | 2.5 | | |
| | | 6 | 3 | 3 | 2 | 2 | 2 | 2 | | |
| | Small Glass | 1 | 3.5 | 4 | 3.5 | 2 | 2 | 2 | 3.50 | 2.63 |
| | | 2 | 4 | 2 | 2 | 2 | 2 | 1.5 | | |
| | | 3 | 3.5 | 3 | 3.5 | 2 | 2.5 | 2 | | |
| | | 4 | 5 | 4 | 4 | 2 | 3 | 2.5 | | |

Seventh Generation Dishwasher Gel

| Cycle 1 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 2.5 | 2 | 1.5 | 2 | 2 | 2.83 | 2.31 |
| | | 2 | 3.5 | 3 | 2 | 2 | 2.5 | 3 | | |
| | | 3 | 4 | 3 | 2.5 | 3 | 3 | 2.5 | | |
| | | 4 | 3.5 | 2.5 | 2.5 | 2 | 2 | 2 | | |
| | | 5 | 3.5 | 2 | 2 | 2 | 2 | 3 | | |
| | | 6 | 4 | 3 | 2.5 | 2 | 2 | 3 | | |
| | Small Glass | 1 | 2.5 | 3 | 2 | 2 | 1.5 | 2 | 3.21 | 1.92 |
| | | 2 | 4 | 4 | 2.5 | 2 | 2 | 2.5 | | |
| | | 3 | 4.5 | 3.5 | 3.5 | 1.5 | 2 | 2 | | |
| | | 4 | 3 | 3 | 3 | 2 | 1.5 | 2 | | |

| Cycle 2 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 2.5 | 2.5 | 2.5 | 2 | 2 | 1.5 | 2.94 | 2.00 |
| | | 2 | 3 | 3.5 | 2.5 | 2 | 1.5 | 1.5 | | |
| | | 3 | 3 | 3 | 3 | 2 | 2 | 2 | | |
| | | 4 | 3.5 | 3.5 | 3 | 2 | 2.5 | 2 | | |
| | | 5 | 3 | 3 | 2.5 | 2 | 2.5 | 2.5 | | |
| | | 6 | 3.5 | 2.5 | 3 | 2 | 2 | 2 | | |
| | Small Glass | 1 | 4 | 3 | 3 | 2.5 | 1.5 | 1.5 | 3.79 | 2.08 |
| | | 2 | 3 | 4 | 3.5 | 2 | 2 | 1.5 | | |
| | | 3 | 5 | 4 | 4 | 2.5 | 2 | 2.5 | | |
| | | 4 | 4 | 4 | 4 | 2 | 2.5 | 2.5 | | |

| Cycle 3 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 2 | 3 | 2 | 2 | 2 | 2 | 3.28 | 2.42 |
| | | 2 | 4 | 3.5 | 3 | 2 | 3 | 2.5 | | |
| | | 3 | 4 | 3 | 3 | 2 | 2.5 | 2.5 | | |
| | | 4 | 3.5 | 3.5 | 3 | 2 | 2 | 2 | | |
| | | 5 | 4 | 3.5 | 3 | 2.5 | 3 | 2.5 | | |
| | | 6 | 4.5 | 3.5 | 3 | 3 | 3.5 | 2.5 | | |
| | Small Glass | 1 | 3.5 | 4 | 3.5 | 2.5 | 2 | 2.5 | 3.88 | 2.13 |
| | | 2 | 4 | 4 | 3.5 | 2 | 1.5 | 1.5 | | |

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| | | | | | | | | | | |
|--|--|---|---|---|---|---|-----|-----|--|--|
| | | 3 | 4 | 4 | 4 | 3 | 2.5 | 2.5 | | |
| | | 4 | 4 | 4 | 4 | 2 | 2 | 1.5 | | |

| Cycle 4 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 3.5 | 2.5 | 2 | 2 | 2 | 3.67 | 2.31 |
| | | 2 | 4 | 3 | 2.5 | 2 | 2 | 2 | | |
| | | 3 | 4.5 | 4 | 3.5 | 3 | 2.5 | 3 | | |
| | | 4 | 4 | 4 | 4 | 2 | 3 | 2.5 | | |
| | | 5 | 4 | 3.5 | 3.5 | 2 | 2 | 2.5 | | |
| | | 6 | 4.5 | 4 | 4 | 2.5 | 2 | 2.5 | | |
| | Small Glass | 1 | 5 | 4 | 4 | 2 | 2 | 2 | 4.29 | 2.13 |
| | | 2 | 4.5 | 3.5 | 3.5 | 2 | 2 | 2.5 | | |
| | | 3 | 5 | 4.5 | 4.5 | 1.5 | 2.5 | 2.5 | | |
| | | 4 | 5 | 4 | 4 | 3 | 2 | 1.5 | | |

| Cycle 5 | Tall Glass | Glass Number | Spotting Rating | | | Filming Rating | | | Average Spotting | Average Filming |
|------------|----------------|-----------------|-----------------|---------------|---------------|----------------|---------------|---------------|---------------------|--------------------|
| | | | Examiner 1 | Examiner 2 | Examiner 3 | Examiner 1 | Examiner 2 | Examiner 3 | | |
| | | 1 | 3 | 3.5 | 2.5 | 2 | 2 | 2 | 3.36 | 2.17 |
| | | 2 | 3.5 | 2.5 | 2.5 | 2 | 2.5 | 2 | | |
| | | 3 | 4 | 3 | 2.5 | 2 | 2 | 2.5 | | |
| | | 4 | 4 | 3.5 | 3.5 | 2 | 2 | 2.5 | | |
| | | 5 | 3.5 | 4 | 3.5 | 1.5 | 2 | 3 | | |
| | | 6 | 4 | 4 | 3.5 | 2 | 2.5 | 2.5 | | |
| | Small Glass | 1 | 3.5 | 4 | 4 | 2 | 2 | 2 | 4.25 | 2.36 |
| | | 2 | 3 | 4.5 | 4 | 2 | 2.5 | 2.5 | | |
| | | 3 | 4 | 5 | 4.5 | 2.5 | 2.5 | 2.5 | | |
| | | 4 | 4.5 | 5 | 5 | 2 | 3 | 3 | | |

Summary:

Tall Glass Spotting Averages

| Dishwasher Gel Evaluated | Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 | Cycle 5 | Total Cycle Average |
|--------------------------|---------|---------|---------|---------|---------|---------------------|
| AGAE | 2.89 | 3.58 | 3.67 | 3.97 | 3.83 | 3.59 |
| Cascade Complete | 2.36 | 2.58 | 2.42 | 2.39 | 2.67 | 2.48 |
| Seventh Generation | 2.83 | 2.94 | 3.28 | 3.67 | 3.36 | 3.22 |

Tall Glass Filming Averages

| Dishwasher Gel Evaluated | Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 | Cycle 5 | Total Cycle Average |
|--------------------------|---------|---------|---------|---------|---------|---------------------|
| AGAE | 3.89 | 3.53 | 3.81 | 3.25 | 3.25 | 3.55 |
| Cascade Complete | 1.94 | 1.83 | 2.03 | 1.94 | 1.97 | 1.94 |
| Seventh Generation | 2.31 | 2.00 | 2.42 | 2.31 | 2.17 | 2.24 |

Small Glass Spotting Averages

| Dishwasher Gel Evaluated | Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 | Cycle 5 | Total Cycle Average |
|--------------------------|---------|---------|---------|---------|---------|---------------------|
| AGAE | 2.54 | 3.50 | 4.42 | 4.13 | 4.38 | 3.79 |
| Cascade Complete | 2.33 | 2.96 | 3.54 | 3.67 | 3.50 | 3.20 |
| Seventh Generation | 3.21 | 3.79 | 3.88 | 4.29 | 4.25 | 3.88 |

Small Glass Filming Averages

| Dishwasher Gel Evaluated | Cycle 1 | Cycle 2 | Cycle 3 | Cycle 4 | Cycle 5 | Total Cycle Average |
|--------------------------|---------|---------|---------|---------|---------|---------------------|
| AGAE | 2.63 | 3.50 | 3.96 | 3.17 | 3.67 | 3.39 |
| Cascade Complete | 2.29 | 1.92 | 2.42 | 2.50 | 2.63 | 2.35 |
| Seventh Generation | 1.92 | 2.08 | 2.13 | 2.13 | 2.36 | 2.12 |

Summary:

CLEANING LABORATORY EVALUATION SUMMARY

| | | | | | |
|----------------------|---------------------------------|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Ceramics, Glass/Quartz | | | | |
| Contaminants: | Food | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| AGAE Technologies | Dishwasher Detergent Gel | 100% | | <input type="checkbox"/> | |
| Clorox Company | Cascade Complete Dishwasher Gel | 100% | | <input checked="" type="checkbox"/> | |
| Seventh Generation | Free & Clear Automatic Dish Gel | 100% | | <input checked="" type="checkbox"/> | |

Conclusion:

The Cascade Complete Dishwasher Gel was the most effective overall (tall and small glassware) compared to the Seventh Generation Dishwasher Gel, which in turn was more effective than the AGAE Dishwasher Gel.