

June 10, 2021

Bioneat, Inc.
Project 21099A
All Purpose Cleaners
Soil Removal

Bioneat Method



June 10, 2021

Bob Trackman Bioneat, Inc. 101 S. East 10th Street Ft Lauderdale, FL 33316

Dear Bob,

You sent us a sample of **All Purpose Cleaner** identified as **Bioneat.** We tested it for soil removal, using ASTM D4488-A5 (General Purpose) Soil against **Method** All-Purpose Cleaner. A summary of the testing is below.

Method performed Best in Soil Removal.

Bioneat and Method are comparable in Soil Removal.

Samples	% Soil Removals	% of Best
Method	24.2	Best
Bioneat	21.8	90.1%
Sig. Dif.	3.9	

Descriptions of the test method and sample information are attached.

Sincerely,

Tod Losey

Sterling Laboratories



Sample Information

All Purpose Cleaners

1. Bioneat, All Purpose Cleaner,

USDA Certified Biobased Product / Product 100%,
Made With Natural, Organic And Biobased Ingredients,
Non-Toxic, 100% Biodegradable, Non Caustic, Hypoallergenic, Non Hazardous,
Lot #: None Found, UPC #: Non Found,
Received 6-1-21 from Bioneat

2. <u>Seventh Generation</u>, All Purpose Cleaner, Free & Clear,

0% Fragrances Or Dyes, 23 fl. oz. (680 mL) Trigger-Spray Bottle, Lot #: 09090AM22 19:21, UPC #: 7 3291344713 8, Purchased 10-8-20 from Amazon.com

3. Method, All-Purpose, Pink Grapefruit,

Naturally Derived Surface Cleaner, Cuts Grease + Grime With Non-Toxic Plant-Based Powergreen Technology, 28 fl. oz. (828 mL) Trigger-Sprayer, Lot #: 2022093 1909, UPC #: 8 1793900010 6, Purchased 10-8-20 from Amazon.com

4. Mrs. Meyer's, Clean Day, Multi-Surface Everyday Cleaner, Lemon Verbena Scent,

Removes Dirt, Freshens Surfaces, 16 fl. oz. (473 mL) Trigger-Sprayer, Lot #: X213, UPC #: 8 0812412441 7, Purchased 10-6-20 from Target, Toledo, OH

> Proj #: 21099A Page 2 of 4



Photographs of Samples Tested

All Purpose Cleaners



Bioneat



Seventh Generation



Method



Mrs. Meyer's

Proj #: 21099A Page 3 of 4



TEST METHOD

All Purpose Cleaners

ASTM D4488-A5, General Purpose

White, Vinyl Composite tile was soiled with ASTM D4488-A5, General Purpose Soil and allowed to age at room temperature for 24 hours. We then measured the reflectance using a Konica Minolta CR410 Colorimeter. (D65/2°, Y - Color Scale)

Sample Dilutions

All samples were tested as received. (Full Strength)

Gardner Runs: (3 replicates / sample)

We applied 2 mL of sample onto soiled area, allowed it to soak for 30 seconds and then scrubbed it 10 cycles with a water-dampened sponge using a Gardner In-Line abrasion apparatus. Samples were rinsed under the tap and allowed to air dry before measuring again.

Soil Removal Calculations

The percent (%) soil removal (SR) was computed by %SR=100(A-B)/(C-B) where A is the reflectance of the tile after cleaning, B is the reflectance before cleaning, and C is the reflectance of the unsoiled tile. We generated the significant difference at the 95% confidence level for each of the soil groups. Samples within 10% are said to be comparable.

Proj #: 21099A Page 4 of 4