



## Features & Benefits:

**Effective:** Clinically proven to kill 99.99% of germs on hands within 15 seconds without soap and water.

**Bio-Based:** 60% certified corn-based ethanol. 95% total bio-based content.

**Vitamin Enriched:** Contains Vitamin A and Vitamin E to condition skin.

**Conditioning:** Contains two moisturizers, glycerin and propylene glycol, to moisturize skin.

**Dermatologist Tested:** Clinically proven to not irritate skin even in frequent usage environments.

**Fragrance:** Contains a pleasant neutral fragrance.

**Dispensing Options:** Available in:

|               |                                  |
|---------------|----------------------------------|
| <b>122229</b> | 2.75 oz.                         |
| <b>122231</b> | 8.5 oz.                          |
| <b>122425</b> | Gallons                          |
| <b>122426</b> | Locking wall-mnt dispenser 46 oz |
| <b>122427</b> | Hands Free wall dispenser 28 oz  |

Avant Original™ is 95% bio-based. Bio-based products are made with renewable resources and generally do not contain synthetics, toxins, or environmentally damaging substances. By using bio-based products, we reduce our reliance on petroleum and promote good stewardship of our natural resources while reducing toxins in our environment.

## Directions for Use:

Dispense an adequate amount in your palm to cover all surfaces of hands completely. Rub hands together until dry. Does not require rinsing.

## Active Ingredient:

Ethanol 60%

## Other Ingredients:

Water, Glycerin, Propylene Glycol, Carbomer, Triethanolamine, Fragrance, Tocopheryl Acetate, Retinyl Palmitate

Made in the USA  
Not Tested on  
Animals

Vitamin E is a highly effective antioxidant that protects skin cells against free radical damage.

Vitamin A helps to repair injured skin and improve the contour of dry scaly skin



## Time Kill Efficacy: In Vitro Study

**Objective:** To determine the time kill antimicrobial activity of Avant Original<sup>TM</sup> Instant Hand Sanitizer on 28 American Type Culture Collection (ATCC) organisms and 25 Clinical Isolates as described in the Tentative Final Monograph, Federal Register, June 17, 1994, volume 59:116.

**Conclusion:** Avant Original<sup>TM</sup> Instant Hand Sanitizer is an effective, fast-acting and broad-spectrum antimicrobial product.

| Challenge ATCC Organism               | Exposure Time | Reduction | Challenge Clinical Isolate Microorganism | Exposure Time | Reduction |
|---------------------------------------|---------------|-----------|--|---------------|-----------|
| Acinetobacter baumannii ATCC #19003   | 15 Seconds    | 99.9999%  | Acinetobacter baumannii                  | 15 Seconds    | 99.9999%  |
| Bacteroides fragilis ATCC #43858      | 15 Seconds    | 99.9999%  | Bacteroides fragilis                     | 15 Seconds    | 99.9999%  |
| Candida albicans ATCC #10231          | 30 Seconds    | 99.9999%  | Candida albicans                         | 30 Seconds    | 99.9999%  |
| Candida tropicalis ATCC #750          | 30 Seconds    | 99.9999%  | Candida tropicalis                       | 30 Seconds    | 99.9999%  |
| Clostridium difficile ATCC #9689      | 15 Seconds    | 99.9997%  | NA                                       |               |           |
| Enterobacter aerogenes ATCC #29007    | 15 Seconds    | 99.9999%  | Enterobacter cloacae                     | 15 Seconds    | 99.9997%  |
| Enterococcus faecalis ATCC #29212     | 15 Seconds    | 99.9999%  | Enterococcus faecalis VRE                | 15 Seconds    | 99.9999%  |
| Enterococcus faecium MDR ATCC # 51559 | 15 Seconds    | 99.9999%  | Enterococcus faecium VRE                 | 15 Seconds    | 99.9999%  |
| Escherichia coli ATCC #11229          | 15 Seconds    | 99.9999%  | Escherichia coli                         | 15 Seconds    | 99.9999%  |
| Escherichia coli ATCC #25922          | 15 Seconds    | 99.9999%  | Escherichia coli                         | 15 Seconds    | 99.9999%  |
| Haemophilus influenzae ATCC #8149     | 15 Seconds    | 99.9999%  | Haemophilus influenzae                   | 15 Seconds    | 99.9999%  |
| Klebsiella oxytoca ATCC #15764        | 15 Seconds    | 99.9999%  | Klebsiella oxytoca                       | 15 Seconds    | 99.9999%  |

|  |            |          |                              |            |          |
|--|------------|----------|------------------------------|------------|----------|
| Klebsiella pneumoniae ATCC #29019        | 15 Seconds | 99.9999% | Klebsiella pneumoniae        | 15 Seconds | 99.9999% |
| Micrococcus luteus ATCC #7468            | 15 Seconds | 99.9999% | Micrococcus luteus           | 15 Seconds | 99.9999% |
| Proteus mirabilis ATCC #7002             | 15 Seconds | 99.9999% | Proteus mirabilis            | 15 Seconds | 99.9999% |
| Pseudomonas aeruginosa ATCC #15442       | 15 Seconds | 99.9999% | Pseudomonas aeruginosa       | 15 Seconds | 99.9999% |
| Pseudomonas aeruginosa ATCC #27853       | 15 Seconds | 99.9999% | Pseudomonas aeruginosa       | 15 Seconds | 99.9999% |
| Salmonella typhi ATCC #6539              | 15 Seconds | 99.9999% | NA                           |            |          |
| Serratia marcescens ATCC #14756          | 15 Seconds | 99.9999% | Serratia marcescens          | 15 Seconds | 99.9999% |
| Staphylococcus aureus ATCC #6538         | 15 Seconds | 99.9999% | Staphylococcus aureus MMRSA  | 15 Seconds | 99.9999% |
| Staphylococcus aureus ATCC #29213        | 15 Seconds | 99.9999% | Staphylococcus aureus MRSA   | 15 Seconds | 99.9999% |
| Staphylococcus epidermidis ATCC #12228   | 15 Seconds | 99.9999% | Staphylococcus epidermidis   | 15 Seconds | 99.9999% |
| Staphylococcus haemolyticus ATCC #29970  | 15 Seconds | 99.9999% | Staphylococcus haemolyticus  | 15 Seconds | 99.9999% |
| Staphylococcus hominis ATCC #27844       | 15 Seconds | 99.9999% | Staphylococcus hominis       | 15 Seconds | 99.9999% |
| Staphylococcus saprophyticus ATCC #35552 | 15 Seconds | 99.9999% | Staphylococcus saprophyticus | 15 Seconds | 99.9999% |
| Streptococcus pneumoniae ATCC #49619     | 15 Seconds | 99.9999% | Streptococcus pneumoniae     | 15 Seconds | 99.9999% |
| Streptococcus pyogenes ATCC #19615       | 15 Seconds | 99.9998% | Streptococcus pyogenes       | 15 Seconds | 99.9999% |
| Trichophyton mentagrophytes ATCC #9533   | 60 Seconds | 99.9995% | NA                           |            |          |

## Skin Sensitivity: Repeat Insult Patch Test

**Objective:** The objective of this study is to determine the potential for inducing skin irritancy with Avant Original™ Instant Hand Sanitizer.

**Method:** The test article was applied to the upper back of 53 healthy volunteers. The study consisted of three phases:

**Induction Phase-** Five applications of the test article over the study period. Patches were worn for forty-eight hours or seventy-two hours with patch removal performed by study staff.

**Rest Period-** Forty-eight hour period between induction and challenge.

**Challenge Phase-** Application of the test article to a naive site, scored forty-eight and seventy-two hours post application for reactions indicative of skin irritation.

**Results:** There was no evidence suggesting that Avant Original™ Instant Hand Sanitizer has a potential for contact sensitization or skin irritation.

## CHG Compatibility:

The effectiveness of a common CHG hand wash was measured alone and following the application of Avant Original™ Instant Hand Sanitizer. Avant Original™ did not materially interfere with the performance of the hand wash.

## Latex Compatibility:

The strength of sterile latex gloves was tested alone and following prolonged exposure to Avant Original™. Avant Original™ did not affect the strength of sterile latex gloves.