



**Validation of the effectiveness of the
GreenTeck Global Ltd. Enozo SB100 Ozone
Generating Spray Bottle against
*Escherichia coli***

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INDEPENDENT LABORATORY REPORT

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2. **Date tested:** 14/APR/2020
3. **Project Reference:** VAL00027Ec
4. **Report Issued:** 27/MAY/2020

5. Product Tested

GreenTeck Global Ltd. Enozo SB100 Ozone Generating Spray Bottle. The product incorporates a portable, low-voltage catalytic cell that produces ozone water on demand from mains water at a concentration of 0.5 – 2 ppm. It was tested against an *Escherichia coli* solution at $\sim 10^8$ cfu/ml by suspension test against a sterile water control.

6. Test Performed

Testing was performed according to a modified version of BS EN 1276 – Chemical disinfectants and antiseptics — Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas — Test method and requirements (phase 2, step 1). The protocol was modified to accommodate for the use of a low concentration ozone based product thus eliminating all interfering substances and substituting them with Phosphate Buffered Saline solution (PBS) and other adjustments.

7. Independent Laboratory Testing Results

Test Organism	Product Tested	Test Type	Contact Time	Replicates	Median LOG10 Reduction	Median Percent reduction
<i>Escherichia coli</i>	GreenTeck Global Ltd. Enozo SB100	Suspension Test	5 minutes	3	5.1 LOG10 cfu/ml	99.9992 % cfu/ml

8. Conclusion

Independent laboratory testing of the efficacy of the GreenTeck Global Ltd. Enozo SB100 Ozone Generating Spray Bottle against *Escherichia coli* in accordance to a modified version of BS EN 1276 – Chemical disinfectants and antiseptics — Quantitative suspension test [...] with a 5 minutes contact time exhibited a 5.1 LOG10 median bacterial concentration reduction (equivalent to 99.9992%).

9. Laboratory Credentials

ALS is the UK's leading provider of food and drink testing services. With 7 accredited laboratories located across the UK and 370 sites world-wide, ALS offers a comprehensive range of high quality analytical testing services including microbiological, nutritional, vitamins and minerals, pesticides and contaminants, allergens and speciation. This trial was performed by the Bespoke Microbiology Team, Specialist Microbiology Department based at ALS Rotherham, which specialises in bespoke microbiology projects and operates under ISO 17025 regulations.

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