



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

**Bespoke Microbiology Services**  
Specialist Microbiology Department  
ALS Laboratories  
7-8 Aspen Court, Bessemer Way  
Rotherham, S60 1FB  
United Kingdom  
T +44 1709 369 699

**INDEPENDENT LABORATORY REPORT**

1. **Reported to:** David Thurston  
GreenTeck Global Ltd.  
42 St. Mary Street, Wallingford  
OX10 0EU
2. **Date tested:** 14/APR/2020
3. **Project Reference:** VAL00027Pa
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 a *Listeria monocytogenes* 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>Listeria monocytogenes</i>	GreenTeck Global Ltd. Enozo SB100	Suspension Test	5 minutes	3	5.5 LOG10 cfu/ml	99.9997 % cfu/ml

**8. Conclusion**

Independent laboratory testing of the efficacy of the GreenTeck Global Ltd. Enozo SB100 Ozone Generating Spray Bottle against *Listeria monocytogenes* in accordance to a modified version of BS EN 1276 – Chemical disinfectants and antiseptics [...] with a 5 minutes contact time exhibited a 5.5 LOG10 median bacterial concentration reduction (equivalent to 99.9997 %).

**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.

Matteo Capocéfalo, BSc (Hons), MRSB  
Technical Project Manager, ALS Laboratories UK Ltd.