



TESTING  
CNAS L0823



Test No. KJ20202899

## TEST REPORT

Date Received: Jul. 23, 2020  
Date Analyzed: Aug. 04, 2020

### Quantitative Germicidal Test for Space Object Surface

1. Test Bacteria: *Escherichia coli* 8099, *Listeria monocytogenes* ATCC 19111, *Salmonella typhimurium* ATCC 13311, *Shigella dysentery* CMCC 51252
2. Culture Media: NA
3. Carrier: Cloth piece (10mm × 10mm)
4. Test Space: 224 L refrigerator

### Test results

Number of Sample	Test Time (min)	Test Bacteria	Positive Control Group (cfu/piece)	The Sample Group (cfu/ piece)	Killing Rate (%)	Killing Log Value
KJ20202899-1	40	<i>Escherichia coli</i>	7.15×10 <sup>5</sup>	<5	>99.99	>3.00
			7.80×10 <sup>5</sup>	<5	>99.99	>3.00
			6.65×10 <sup>5</sup>	<5	>99.99	>3.00
		<i>Listeria monocytogenes</i>	6.15×10 <sup>5</sup>	<5	>99.99	>3.00
			5.50×10 <sup>5</sup>	<5	>99.99	>3.00
			6.80×10 <sup>5</sup>	<5	>99.99	>3.00
		<i>Salmonella typhimurium</i>	9.05×10 <sup>5</sup>	<5	>99.99	>3.00
			8.15×10 <sup>5</sup>	<5	>99.99	>3.00
			8.60×10 <sup>5</sup>	<5	>99.99	>3.00
		<i>Shigella dysentery</i>	1.17×10 <sup>6</sup>	<5	>99.99	>3.00
			1.04×10 <sup>6</sup>	<5	>99.99	>3.00
			1.21×10 <sup>6</sup>	<5	>99.99	>3.00

**Note:** 1) The negative control group was sterile growth.

$$2) \text{ Killing Rate (\%)} = \frac{\text{Positive Control Group (cfu / piece)} - \text{The Sample Group (cfu / piece)}}{\text{Positive Control Group (cfu / piece)}} \times 100\%$$

\*\*\*To be continued\*\*\*