



## Product Specification

Version 2

### Product

Product name : Phageguard Listex (PGL)  
Product number : 108 (1000 mL), 109 (100mL)

### Physical properties

Description : Liquid phage culture which kills *Listeria monocytogenes* on food and food contact surfaces  
Visual characteristics: : Clear to slightly opaque, yellow liquid. Phageguard products are made using a natural production process. This may result in some turbidity in the product which can vary between batches, and appear over time.  
Phage Activity : As defined by the internal standard of Microeos Food Safety B.V.  
Source : Fermentation  
pH : 6.0 – 8.0  
Conductivity of 1% (v/v) solution : >0.5 mS/cm\*

\*Solution is diluted in deionized water and measured at 20°C.

### Heavy metals

Mercury : < 0.5 ppm\*\*  
Arsenic : < 0.1 ppm\*\*  
Lead : < 0.1 ppm\*\*  
Cadmium : < 0.05 ppm\*\*

\*\* These values are not analysed each batch but have been established based on the results of several batches in line with our regular monitoring program.

### Microbiological properties

Aerobic plate count 30°C : < 100 CFU/g\*\*\*  
Yeast & mold : < 10 CFU/g  
Coliforms : < 1 CFU/g\*\*\*  
*E. coli* : < 1 CFU/g\*\*\*  
*Salmonella* spp. : Negative/25 g\*\*\*  
*Listeria* spp. : Negative/25 g\*\*\*

\*\*\* These microorganisms are not tested individually, but the analytical method used has been validated for coliforms, *E. coli*, *Listeria* spp. and *Salmonella* spp.

### Packaging and storage

Packaging : One-way containers of 100 mL or 1000mL  
Packaging integrity check : Upon reception of the products, verify the integrity of the packaging material. Report any packaging non-conformities at [gamfs@phageguard.com](mailto:gamfs@phageguard.com)  
Storage temperature : To be stored at refrigerated conditions 36 – 46°F (2 – 8°C)  
Storage stability : Kept in the original packaging under recommended conditions the product's shelf-life is 12 months

Microeos Food Safety B.V.

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