

# Manodes LI

**Description:** Ready to use liquid hand disinfectant for the food and beverage industry

**Product strengths:**

- broad activity spectrum
- provides optimum protection and enduring safety for several hours
- no skin irritation at frequent use
- dermatologically tested

**Properties**

**Appearance:** clear, colourless liquid

**Storage stability:** 0 to 25 °C

**pH:** 4.8 (20 °C)

**Application** **Manodes LI** is a ready to use application solution for hand disinfection in the food and beverage industry.

## Microbiology

| <b>EN 13727 Bactericidal Efficacy</b> |  |             |  |
|---------------------------------------|--|-------------|--|
| Pass criteria                         | Test organisms   | Temperature | Dirty conditions<br>(0.3% BSA + 0.3% sheep erythrocytes) |
| >5 log reduction                      | - <i>Staphylococcus aureus</i><br>(ATCC 6538)<br>- <i>Pseudomonas aeruginosa</i><br>(ATCC 15442)<br>- <i>Escherichia coli</i> K12<br>(ATCC 10538)<br>- <i>Enterococcus hirae</i><br>(ATCC 10541)<br>- <i>Proteus mirabilis</i><br>(ATCC 14153) | 20°C        | 15 sec.  |

| <b>EN 13624 Yeasticidal efficacy</b> |   |             |  |
|--------------------------------------|---|-------------|--|
| Pass criteria                        | Test organisms  | Temperature | Dirty conditions<br>(0.3% BSA + 0.3% sheep erythrocytes) |
| >4 log reduction                     | <b>Yeast</b><br>- <i>Candida albicans</i><br>(DSM 1386) | 20°C        | 15 sec.  |

| <b>EN 14476 Viricidal efficacy</b>     |  |             |                                 |
|--|--|-------------|---------------------------------|
| Pass criteria                          | Test organisms   | Temperature | Clean conditions<br>(0.03% BSA) |
| Viricidal efficacy<br>>4 Log reduction | - <i>Murine Norovirus</i><br>strain S99 Berlin<br>- <i>Adenovirus</i><br>strain Adenoid 75 | 20°C        | 120 sec.                        |

| <b>EN 1500 Bactericidal efficacy</b> |   |             |                               |
|--------------------------------------|---|-------------|-------------------------------|
| Pass criteria                        | Test organisms  | Temperature | Application / Contact<br>Time |
| >4 log reduction                     | <b>Bacteria</b><br>- <i>Escherichia coli</i> K12<br>(DSM 10538) | 20°C        | 3 ml / 30 sec.                |

## Safety

The relevant hazards identifications of **Manodes LI** are given in the EC Safety Data Sheet. If any questions arise in this context please contact your Ecolab representative.

Use biocides safely. Always read the label and product information before use.

The statements, information and data presented herein are believed to be accurate and reliable. The information describes the characteristic features of **Manodes LI** in ordinary use but cannot be taken as a guarantee, express warranty or implied warranty for the suitability for a particular purpose and shall not extend mandatory warranty rights (if any). The specifications and performance may vary subject to the operational conditions. Since numerous parameters will influence product performance and applicability, this information does not exonerate the user from liability with respect to the suitability of the product and the appropriate safety measures to be taken. Moreover, a possible infringement of patent rights must be avoided at all times.

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