

Listeria monocytogenes growth relevant to minimally processed vegetables

For minimally processed vegetables, manufacturers should demonstrate that *Listeria monocytogenes* (*Lm*) levels will not exceed 100 cfu/g during shelf life. Challenge tests provide information on the growth behavior of *Lm* on a product. Technical guidance at EU level describes the use of *Lm* reference strain(s) from a characterized strain set. This strain set does not include isolates from vegetable products. Information on maximum growth rates of *Lm* strains isolated from vegetable products can be used for selection of relevant strains in challenge test and allows for more accurate prediction of expected cell numbers in growth models.

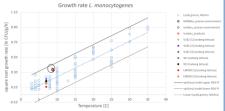
About the research

A set of 37 *Lm* strains previously isolated from vegetable products or its process environment were characterized for maximum growth rate at 8°C in a culture broth and for a selection of strains on iceberg lettuce. Experimentally determined growth rates were compared to data from literature and are in line with those reported for leavy greens.

Relevance for sector

Growth rates of *Listeria monocytogenes* isolates from vegetables have been determined in broth and on iceberg lettuce and can be used for more accurate prediction of growth on minimally processed vegetables.





For more information about the project and the partners, please visit:

www.wur.eu/freshondemand

Information

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