

### Temperatures in domestic refrigerators: an important parameter to consider in shelf-life studies

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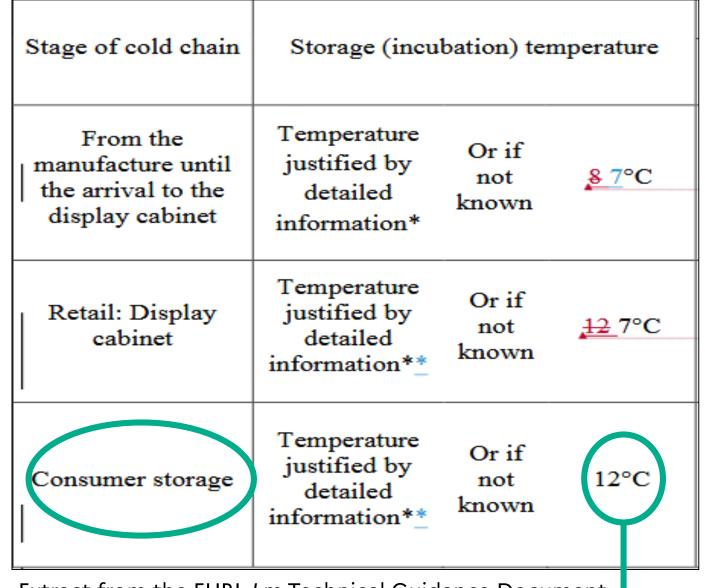


# Temperatures in domestic refrigerators: an important parameter to consider in shelf-life studies

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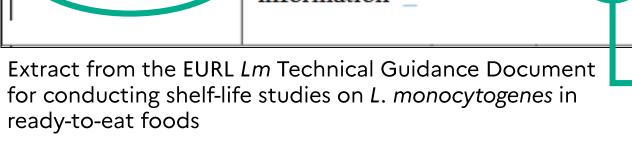
## Introduction and objectives

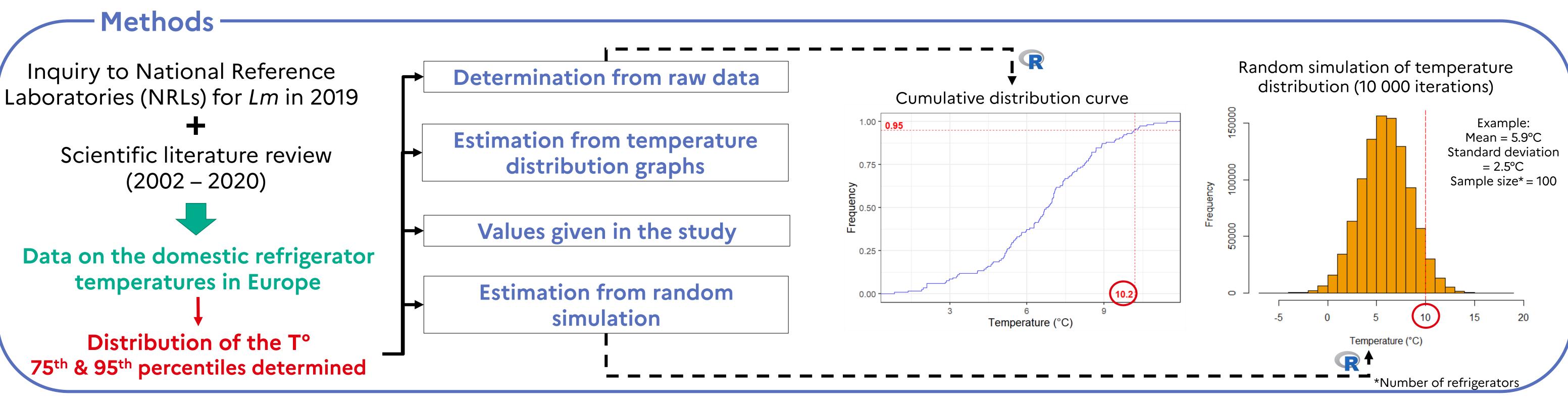


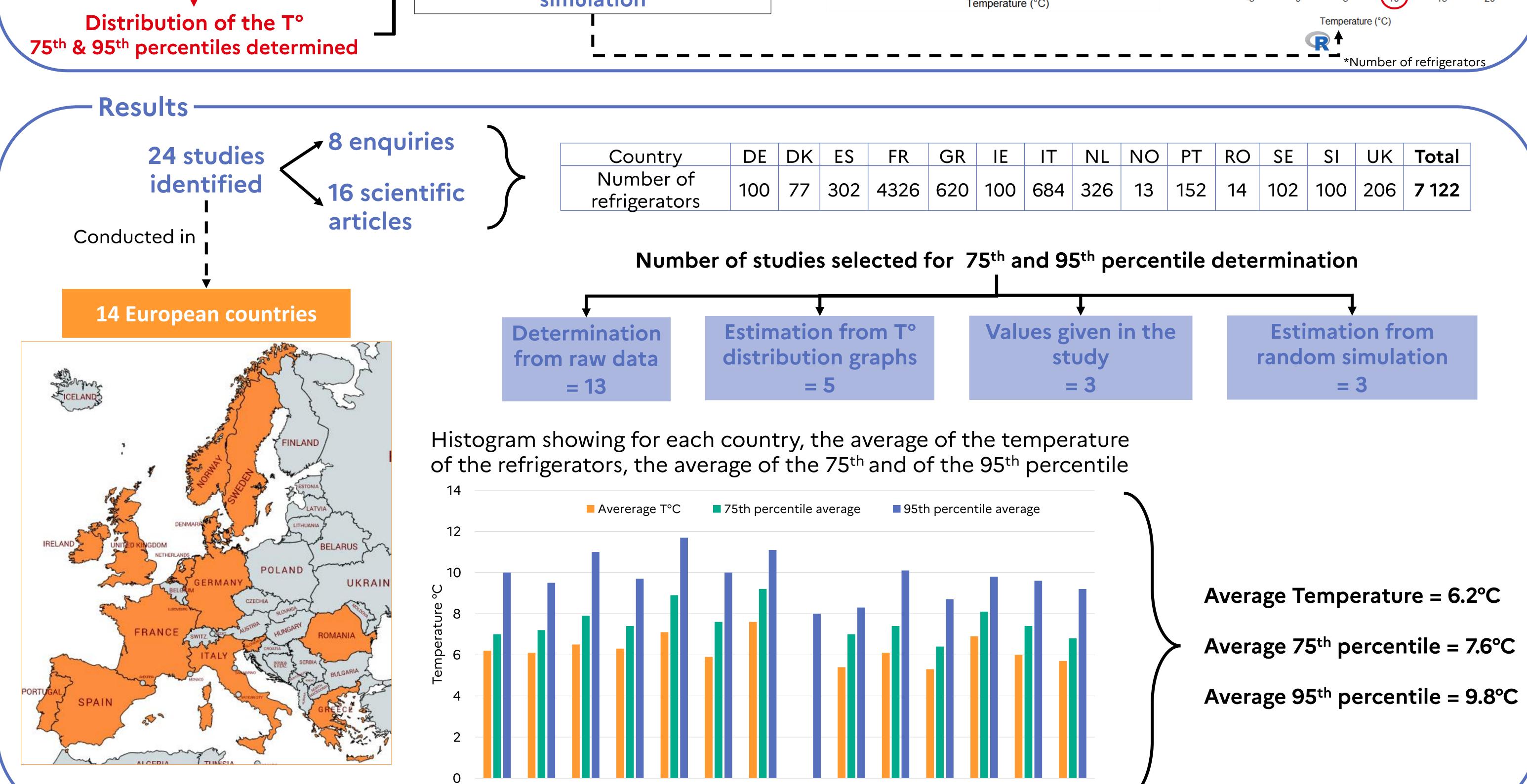
Listeria monocytogenes (Lm) is a pathogenic bacteria able to grow at refrigerated temperatures, widely distributed in the environment and thus likely to contaminate various food products of which Ready To Eat (RTE) foods are a high-risk category. Temperatures used in shelf-life studies is a critical part of challenge tests and have to be justified and documented.

Amendment of the EURL *Lm* Technical Guidance Document for conducting shelf-life studies on *Lm* in RTE foods (2019) led to the revision of the storage temperature at different steps of the cold chain.

The goal of this study was to gather available data on domestic refrigerator temperatures and to update the "consumer storage" temperature.







### -Conclusion

Based on the obtained data representing the temperature of refrigerators in 14 European countries, it was proposed to decrease the default temperature to be used in challenge tests assessing the growth potential, from 12°C to 10°C, to better mimic the storage at consumer level.



This change was included into the latest version of the EURL *Lm* Technical guidance document on shelf-life studies (version 4) endorsed by EC Standing Committee on Plants, Animals, Food and Feed on 01/07/2021.