





CARVACROL AS DISINFECTANT AGAINST LEGIONELLA

A research group from CIBER, IGTP and UAB has patented a new use for a natural molecule

The Need

There is a need of finding strategies able to control Legionella growth which do not generate toxic and carcinogenic by-products (such as it occurs for instance when chlorine is used).

The Solution

The invention probes the efficient use of Carvacrol natural essential oil , with same or more efficacy that currently used alternatives that generate toxic and carcinogenic products.

The molecule is effective for all *Legionella* subpopulations even the harboured in protozoa cysts, protozoa trophozoites and/or Legionella embedded within a biofilm.

Innovative Aspects

This product would bring the opportunity to:

- 1. Use a natural product instead of toxic or carcinogenic ones against all Legionella subpopulations.
- 2. Reducing water temperature heating in biocide treatments , having energy savings.
- 3. It can be used in food industry.
- 4. The use of 50 degrees water temperature heating, loosing only a 10% of the molecule.
- 5. Have a good effectivity even in *Legionella* harboured in protozoa cysts, protozoa trophozoites and in *Legionella* embedded in biofilms.





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Aims

Looking for companies or groups for collaboration in a new molecule development and licence agreements for commercialisation.



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