



Innovative way to preserve liquid foods

Our team

Innovation coming fro m diverse prospectives



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Benefits of nanoPEF



No compromise on qualit

etains original quality, taste and flavour. In 20% higher yield of milk-based proteins compared to pasteurization.



Less CO₂-emissions

Environmentally friendly technology. Saves up to 50% of energy and utilizes less water for cleaning.



Food safety

Same bacteria inactivation level as after HTST. Extended shelf life up to 1 month.

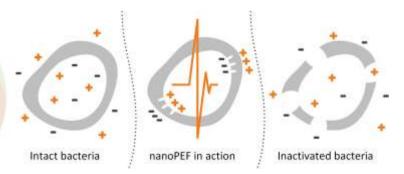


How it works

- The nanoPEF treatment causes bacteria death due to the electroporation of cell membranes.
- The nutrients, such as vitamins, minerals, lipids and proteins are not affected.
- The bio load inactivation rate increases in proportio n with electric field intensity.



Electroporation effect



E. Coli bacteria inactivation rate in milk after nanoPEF is 107

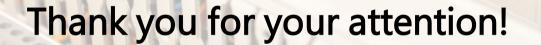




Technology



- Highly versatile nanoPEF machine 500-1000 I/ h for preservation of various liquid foods
- Scalable for production up to 10.000 I/h
- Technology was validated with leading food producers
- Plug-in external units
- Processing temperature below 65°C
- Compact design (<2m²)
- Best suited for heat-sensitive products







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