

Subcritical water as a green solvent for extraction of plants

SUBWEX

Coordinator: ?

Presenting Organisation: CELABOR



Project Details

Project coordinator	To be determined
Other applicants	---
Sector	Extraction, food industry, cosmetics, phytotherapy...
Call of Interest	<input type="checkbox"/> CORNET
Proposal summary:	Comparison of subcritical water extraction as a green process with other methods using organic solvents; optimization of this process; chemical characterisation of the extracts, aromatic profile and evaluation of their activities (active ingredients for cosmetics, phytotherapy, food applications)

Project Details

<p>Advantages for SMEs, trade or industry:</p>	<ul style="list-style-type: none">- Replacing current extraction processes with a green, eco-friendly process, while keeping the same quality of extract (or better)- Development of new extracts with new applications in different sectors
<p>Profile of partners sought:</p>	<ul style="list-style-type: none">- Partner using “classical” extraction methods or different process for subcritical water extraction- Partner able to characterise extracts: biochemical activities, toxicity testing for cosmetics...



What technology and/or application field is addressed?

Extraction technologies

Several application fields: all industries using extracts can be interested in the project.

What are the major objectives and outcomes of the project?

- New, improved, green extraction process
- Replacing of organic solvents by water in existing processes
- Better quality extracts
- Identification of potential new applications
- Fully characterized extracts

Who are the actors of the project?

- CELABOR: extraction department, active in subcritical water extraction (lab and pilot scale) as well as other extraction processes
- ...

What is the benefit for participating SMEs/Associations?

- Food industry / cosmetics / phytotherapy: development of new/improved extracts
- Equipment manufacturer: evaluation of an innovative technology / improvement of process

What are the estimated costs and duration of the project?

- 2 years
- Costs: 500 – 600 k€



CELABOR

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BELGIUM

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