

COMPETITIVE ADVANTAGES

- Polyunsaturated fatty acids stabilization;
- Phenol bioassimilation;
- High production yield (of the order of 80 to 95%);
- Production cost decreased;
- A natural process: no solvent.

APPLICATIONS/MARKETS

- Molecules for therapeutic applications: prevention or treatment of neurodegenerative, cardiovascular, and inflammatory diseases;
- Food preparations;
- Cosmetics.

INTELLECTUAL PROPERTIES

- French patent deposited on the 29/05/2013;
- Collaboration sought: license for process industrialization and commercialization of new molecules.

LABORATORY

- Laboratoire d'Ingénierie des Biomolécules (LIBio).

CONTACT

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PRESENTATION

Polyunsaturated fatty acids and phenols have well-known health benefits. However, fatty acids are very sensitive to oxidation and phenols are not very bioavailable. They are therefore sparsely assimilated by the human body. The molecular grafting of these two molecules enables the elimination of these weaknesses by a synergy effect.

Existing processes allow such grafting, but their yield is low (of the order of 50%). The new process developed by the LIBio laboratory has a much higher yield.

