

French bluetech company is looking for partners to test its innovative fresh algae in the aquaculture sector, in particular hatcheries

Summary

Profile type

Technology offer

Company's country

France

POD reference

TOFR20230830010

Profile status

PUBLISHED

Type of partnership

**Research and development
cooperation agreement**

Investment agreement

**Commercial agreement with
technical assistance**

Targeted countries

• **World**

Contact Person

Rita ELSTE - TOMSONE

Term of validity

30 Aug 2023

29 Aug 2024

Last update

30 Aug 2023

General Information

Short summary

The French bluetech startup has developed an innovative and sustainable microalgae production process on biofilm. It allows to produce a highly performant living microalgae product that optimize the growth and development of larval organisms. Thus enhancing productivity in hatcheries in the aquaculture sector. The company is looking for partners to test its products.

Full description

The French bluetech company has developed an innovative, patented and award-winning microalgae cultivation technology, offering real economical and environmental advantages.

A process preserving water and energy, without waste, neither need for arable land or space at sea, nor harvesting in the nature. A production made up of living concentrated microalgae. A unique product on the market, favorable to health, free of any undesirable ingredients.

With many growth opportunities, in alve is developing an offer that combines contribution to global issues, response to consumer expectations and profitability.

The French company produces a highly performant living microalgae product specifically designed to enhance productivity in applications such as shrimp farming, rotifer culture, rotifer enrichment, and the green water technique. This solution has been proven effective in optimizing the growth and development of larval organisms. This

innovative approach sets the startup apart and offers unique advantages in terms of efficiency and sustainability. The patented technology takes advantage of the propensity of some microalgae to form a film and to stick to a support: a so called "biofilm" technology. Microorganisms are encapsulated in a matrix of EPS (extracellular polymeric substances) and the final product is composed of a network of sugars, proteins, and nucleic acids. To maximise biosafety, the company recreates seawater with an ultra-controlled composition. The French company wants to expand in Europe and the world, and is looking for hatcheries (fish, shrimp, bivalve and other marine species) to test its microalgae, which has a high concentration (ranging from 150 to 300 million cells/mL) and impressive shelf life up to two months in the refrigerator.

Advantages and innovations

A whole range of products for fish, shrimps and bivalve larvae:

- naturally rich in high level of nutrition and health components
- enriched in vitamin B12, selenium, DHA, etc.
- GMO-free, pesticides-free, heavy metals-free
- impressive shelf life up to 2 months in a refrigerator
- high concentration of cells per ml
- Higher survival rate
- Increased biosecurity
- Microalgae room alternative
- Easy to use
- Storage reduce volume

Living and concentrated microalgae biomass:

- up to 5% of dry mass (~ 150 million cells per ml)
- cell viability: 100% at harvest and over 60% after 8 weeks
- Simple storage at 4°C keeping benefits for hatchery several weeks long

Technical specification or expertise sought

Stage of development

Available for demonstration

IPR Status

IPR granted

Sustainable Development goals

- **Goal 3: Good Health and Well-being**

Partner Sought

Expected role of the partner

Type of partner:

Hatcheries of the aquaculture sector

Role of the partner:

To evaluate the innovative fresh microalgae effectively, the partner should conduct tests to measure key quality indicators such as survival rate, growth rate, developmental improvements, and other relevant metrics. The trials should be carried out in collaboration with the skilled team from the French startup, who can adjust a suitable protocol to meet the specific needs of each partner.

Type of partnership

Research and development cooperation agreement

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Type and size of the partner

• **Big company**

• **SME 11-49**

• **SME 50 - 249**

Dissemination

Technology keywords

• **07003002 - Fish / Fisheries / Fishing Technology**

• **07003001 - Aquaculture**

Targeted countries

• **World**

Market keywords

• **09005 - Agriculture, Forestry, Fishing, Animal Husbandry & Related Products**

• **05009002 - Fish health**

Sector groups involved

• **Maritime Industries and Services**

• **Agri-Food**