SATT GRAND CENTRE | TECHNOLOGY TRANSFER COMPANY

CHEMISTRY

IMPERVIOUS DOUBLE LAYER MICROCAPSULES FOR MICROENCAPSULATION

#KEYWORDS

Microencapsulation
Silicon microcapsules
Double layer
Functionalization

CONTEXT

Microencapsulation is a technology for the immobilization, controlled protection and release of active ingredients by trapping them inside of a membrane.

Microcapsules are widely used to develop new product formulations (cosmetics, health…) or for material functionalization to boost its inherent property.

The membrane of microcapsules is usually composed of organic materials with poor chemical properties, poor mechanical or thermal resistance and varying levels of toxicity.

TECHNOLOGY

New encapsulation material and method for **lipophilic or hydrophilic** active products using a polysiloxane membrane.

The innovation lies in the development of the controlled synthesis of a **double polysiloxane membrane** particularly impervious and whose surface can be **functionalized**.

Scale up of the manufacturing process is validated at kg scale.

ADVANTAGES / BENEFITS

- Versatile technology allows encapsulation of a wide variety of active products
- Functionalization of the microcapsule surface
- Efficient alternative to current capsules, especially melamine/formol
- High rate of encapsulation of active products

INTELLECTUAL PROPERTY

Priority filing 2010;
Granted in France (2013) and US (2016).
Requests filed in EP / JP / IN.

PARTNERSHIP

Available for codevelopment and/or licensing out

RESEARCH TEAM

François Rabelais University
Tours, FRANCE
Laboratoire de Génétique, Immunothérapie, Chimie et Cancer (GICC)
UMR 7292
Pr. M-C VIAUD-MASSUARD,

SATT GRAND CENTRE

is a French tech transfer company having exclusive rights to license out technologies coming out of universities and public research organizations in France.

CONTACT

Magali **GRANGER**
Business Developer

Tél. +33(0)6 34 22 36 89
Mail : magali.granger@sattgc.com

8, rue Pablo PICASSO
63000 CLERMOND-FERRAND
FRANCE

www.sattgc.com