

MANUFACTURING OF STABLE SUSPENSIONS FROM STRONGLY HYDROPHOBIC POWDERS

Technology transfer | Business opportunities

Fields

- Pharmacology
- Consumer care
- Food
Cosmetic

Benefits

- Rapid
- Ecologically friendly
- Cheap
- Scalable process

Intellectual property

- Unpublished patent application

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Description

A novel method for modifying the wettability of hydrophobic substances has been developed.

This method relies on cold air radiofrequency plasma. This process affects only the thin surface layer of a few Angströms depth, making no change to the chemical structure of raw material.

This method allows hydrophilization of strongly hydrophobic substances and procurement of stable suspensions of such hydrophobic substances in emulsifiers and surfactants.

Development status

A laboratory proof of concept has been demonstrated using several hydrophobic substances.

Treated materials have formed aqueous suspensions, which remained stable and irreversible for several months for different storage temperatures.



*Technology Readiness Level 4: Validation of the technology in a laboratory
Next level: Technology validated in a relevant environment*