

HAN BIOTECH

CONTACT

INFORMATION

[Address]

[Phone]

[Website]

[Social Media]

[E-mail]

TEAM OVERVIEW

[Names, position,
LinkedIn]

REVENUES AND FUNDING

[Revenue for last three
years]

[Funding received for
the lifetime of the firm]

PATENTS

10-1656670 (KR)

10-1913467 (KR)

10-1974313 (KR)

PCT/KR2016/ 011867

15/769,581 (US)

16857805.2 (EU)

2016.8006807 4.6 (CN)

CURRENTLY SEEKING

[Insert what are you
currently seeking. Out-
licensing? End product
distribution? Product
Co-development?]

PRODUCT OVERVIEW

Han Biotech engineers and develops aerogel and hybrid aerogel-hydrogel-hydrocolloid materials to trap and release functional materials. The materials are based on an inert silica backbone, and can be fabricated to hold particles with sizes ranging from 5 to 30nm.

APPLICATIONS

The materials can be shaped into powder, paste, beads, films, or other custom shapes easily and cost effectively, and can be used in:

- medical applications and functional cosmetics, such as in facemasks and creams that deliver nutrients and hydration to the skin while absorbing sebum and pollutants.
- controlled fragrance release, both for personal wear in perfumes or for living spaces in air fresheners or pest control diffusers, with a slower initial release and longer lifetime compared to conventional materials.
- Custom applications requiring the capture and release of active materials in cosmetics, medical dressings, food packaging, and agricultural use.

PROBLEM

The customizable structure of the Han Biotech hybrid materials allows for an engineered design with custom properties. In addition to trapping and release of the functional materials, other compounds can also be embedded to provide water proofing, control in vapor permeability, germ intrusion prevention, and heat conservation.

Conventional materials for trapping and release have have a high level of initial activity that quickly tapers off, leaving for a generally short shelf life and usable product lifetime.

In contrast, Han Biotech hybrids can be produced cost effectively to improve the capture and release performance ensuring longer and improved delivery of the functional materials that reduces overall cost by decreasing the frequency to replenish and replace consumables.