

Background

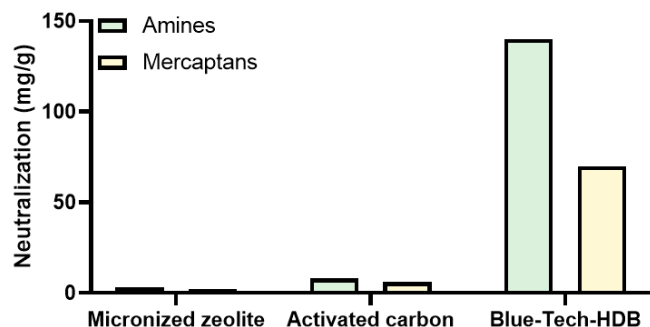
- **Mercaptans** are volatile sulphureous compounds which cause very bad odors. They have been recognized as a big problem for municipal wastewater systems, animal waste and oil refinery industry.
- **Amines** are basic compounds with strong odors. Animal waste from large farms, production and application of nitrogen-rich fertilizers used to boost crop yields and waste-to-energy processing facilities, pharmaceutical manufacturing plants and food processing operations are known amine odor sources.
- These compounds cause respiratory problems and toxicity for animals and humans and environmental concerns and air pollution.

Innovation

- ✓ Generation of a system based on the microencapsulation of covalently attached oxidative metals and natural acidic material.
- ✓ Fast and effective odor neutralization capacity, specially for bad odors coming from Mercaptans (H₂S) and Amine (NH₃) chemical compounds.

Technology

Blue-Tech-HDB neutralization capacity of amines and mercaptans was higher than natural adsorbents:
100x more for amines
60x more for mercaptans



IP: Intellectual property rights until 2040.

- ✓ **PCT/EP2020/062573.** Process for preparing high density, thermostable polysaccharide beads as food additives.



PCT/EP2020/062573

DNA Catcher

DNA CATCHER is a company specialized in the development of a technology based on natural, biodegradable and biocompatible high density polymeric beads (HDB), based on cheap and safe raw materials (GRAS and FOOD grade), which offer an innovative solution to the problems of environmental pollution and quality control of different sectors and industries (pharmaceutical, veterinary, food, textile, etc.).

These beads allow the encapsulation of different active ingredients (metals, drugs, microorganisms, etc.) to protect them from extreme environmental conditions and promote a controlled release in the area of action.

Applications



Elimination of bad odors from hygienic products



Air and sewage filtration systems



Face mask industry



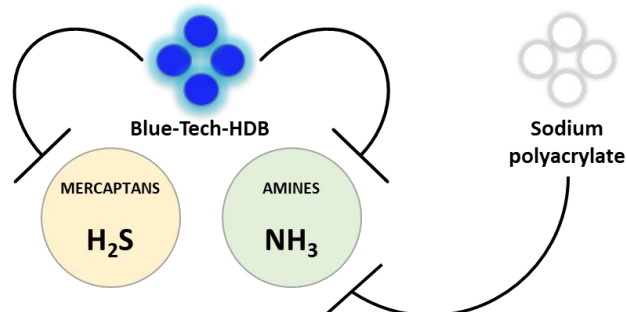
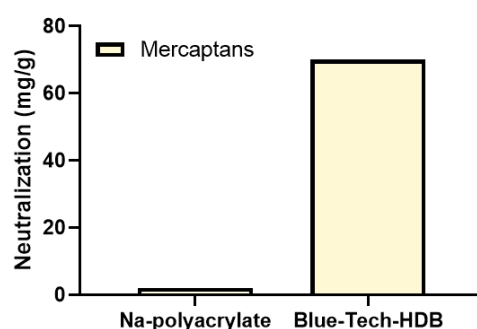
Elimination of bad odors from food packaging



Elimination of bad odors in fridges

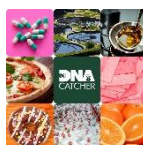
Efficacy data of Blue-Tech-HDB as diaper filler

Blue-Tech-HDB neutralization capacity of mercaptans was **60x more** for mercaptans compared to standard diaper filler & adsorbent (Na-polyacrylate)



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