

Method for Obtaining an Antibacterial Agent from *Drosera gigantea* Tissues Containing Antibacterial Compounds

About the solution

The invention relates to a method for producing an antibacterial agent from *Drosera gigantea* tissues cultivated in vitro, free of cytotoxic compounds and rich in biologically active antibacterial substances.

The agent is obtained through extraction and purification of biologically active fractions from plant biomass using a vacuum solid-phase extraction system.

The invention allows for the production of a natural preparation exhibiting strong antibacterial activity against Gram-positive bacteria and, at higher concentrations, also against Gram-negative bacteria.

The preparation is non-toxic and suitable for medical, veterinary, cosmetic, and feed industry applications.

This method provides a sustainable way to obtain biologically active plant-derived compounds with therapeutic potential, using in vitro cultivation techniques to ensure reproducibility and purity.



TRL 4

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IP Protection

The invention is the subject of Polish patent application:
P.437775

Applications

- Medicine and pharmacy
- Veterinary medicine
- Cosmetic industry
- Natural bioactive products and antimicrobial formulations

Cooperation opportunities

- Research and preclinical testing partnerships
- Technology licensing
- Technology sale