**Carbohydrate-Based Surfactants and Methods of Production**

**Title:** Carbohydrate-based Surfactants and Methods of Production

**Invention:** This invention is a method to produce carbohydrate-based surfactants with repeated succession using a glycosylation promotor.

**Background:** Current amphiphilic molecules, surfactants, emulsifiers, cleaning products and food additives are mostly made from synthetic surfactants. Commonly these surfactants are prepared from petroleum-based materials which are non-renewable and very expensive. This invention solves this problems by synthesizing naturally occurring bio surfactants on a large scale.

**Applications:**
- Food emulsifiers
- Agriculture dilution and dispersion of fertilizers/pesticides
- Pharmaceutical industry

**Advantages:**
- Does not require extraction and purification of microorganisms
- Allows for production of single congeners
- Cost effective
- High yielding

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