

## GlucoSpike™

### Description

GlucoSpike™ is an EPA Safer Choice and CleanGredients listed bio-based surfactant synergist that reduces the cost and increases the performance of surfactants. It is a raw ingredient meant for cleaning formulations. Formulations using GlucoSpike™ have shown improved cleaning performance, superior wetting, and increased odor control in finished formulations.

GlucoSpike™ is designed to reduce the amount of surfactant needed in formulations, while maintaining equal or better performance. GlucoSpike™ stabilizes micelle formation, causing surfactants to micellize at lower concentrations. GlucoSpike™ is compatible with nonionic, anionic, amphoteric, cationic, and biosurfactants.

GlucoSpike™ is derived from yeast using a patented heat shock fermentation process. The yeast are provided specific inputs that induce their metabolism to produce co-surfactants as outputs. These co-surfactants are then harvested and stabilized, producing GlucoSpike™.

### Applications

GlucoSpike™ can be used to improve performance as well as lower cost in surfactant formulations. Typical use in formulations replaces 30%- 50% of the surfactant with GlucoSpike™. This ratio should be optimized based on the application. Contact your ABC sales representative for support, or email [tech@abioecat.com](mailto:tech@abioecat.com).

### Storage and Handling

GlucoSpike™ should be handled with protective face/eyewear and gloves. Wash hands thoroughly after handling. Keep container tightly closed until ready for use. Store in cool, well ventilated place that is locked. Dispose of contents/container in accordance with local/regional/national/international regulations. Do not reuse empty container. GlucoSpike™ has a shelf life of 2 years.

### Order Placement

GlucoSpike™ can be ordered from any location, please email: [orders@abioecat.com](mailto:orders@abioecat.com)

### Further Information

Please e-mail: [tech@abioecat.com](mailto:tech@abioecat.com)

GlucoSpike™ is a registered trademark of Advanced BioCatalytics



- Sustainable and eco friendly
- Free of 1-4 Dioxane
- Biodegradable
- Suitable for use with most surfactants
- Low cost

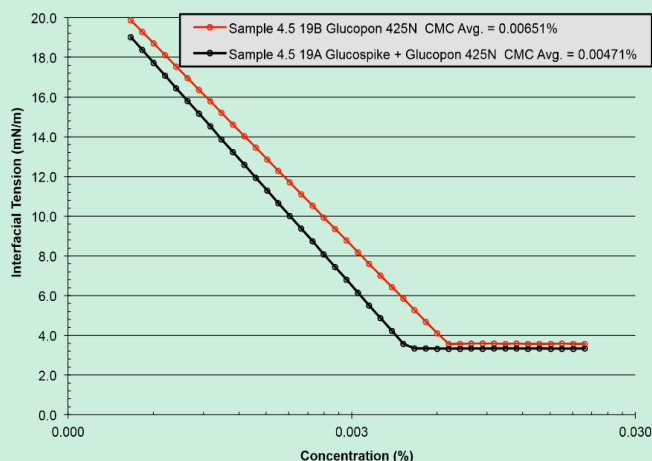
### Typical Properties

Appearance	Amber liquid
pH	2.0 – 4.0
Density, lbs./U.S. gal	8.33 – 8.60
Percent Volatile	>99%
Flash Point, °C (°F)	>230F/>110C
Boiling Point, °C (°F)	97.9C / 208.2F
Freezing Point C (F)	-18.7C / -1.66F

Percentage actives: 100% yeast metabolites in their native state meaning no water added and no water removed. For formulation guideline purposes the percentage active of this material should be considered equal to the percentage active of the target surfactant of the integration.

### IFT Test Shows a 30% CMC Reduction when Glucospike is combined with BASF Glucocon® 425N on a 1:1 Ratio

Critical Micelle Concentration Comparison Plot  
CMC's Measured by Interfacial Tension with Tetradecane



GlucoSpike™ has been reviewed by EPA's Safer Choice Program and qualifies for use in Safer Choice-certified products.