

DGAS

- DGAS is a recombinant amylosucrase originated from *Deinococcus geothermalis* DSM11300.
- DGAS catalyzes 1) sucrose hydrolysis that release glucose and fructose, 2) the synthesis of α -1,4-oligosaccharide using released glucose as an acceptor, and 3) minor production of sucrose isomers such as trehalulose and turanose using released fructose as an acceptor.
- DGAS also transfers glucose moiety from sucrose to various acceptor molecules including flavonoids.

Characteristics

1. Colorless liquid
2. Optimum pH : 8.0
3. Stable pH range : 6.0~9.0
4. Optimum temperature : 45°C
5. Stable temperature : below 55°C (pH 8.0, 1 hr)
6. Stable organic solvent : below 20 % of DMSO

Specification

Sucrose hydrolysis activity of DGAS In-house method pH 8.0 Not less than 10 U/ml

Storage

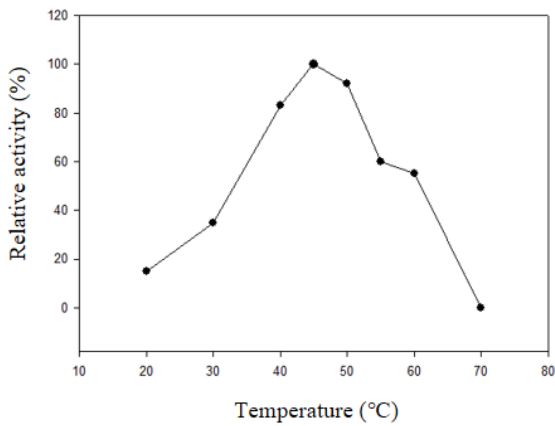
Store in refrigerator (below 4°C).

Safe Handling

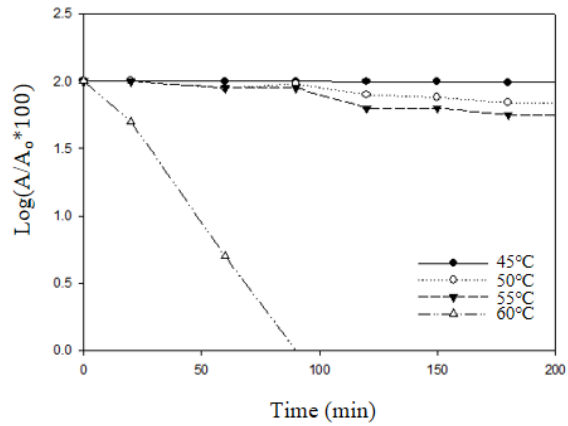
Do not inhale.

The following results were obtained with the enzyme solution in various buffers. These results are for reference only.

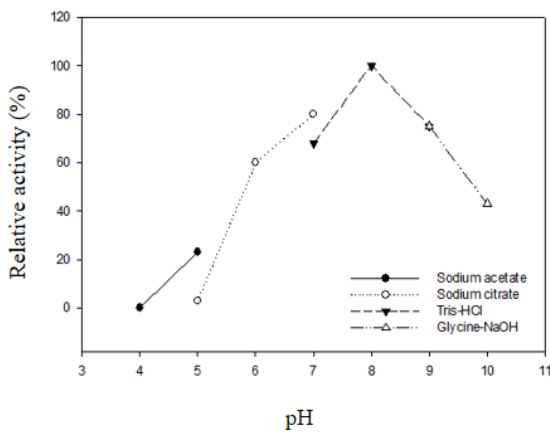
Temperature and Activity



Thermostability



pH and Activity



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