

## Biosafety Clearing-House (BCH)

ORGANISM (ORGA)

BCH-ORGA-SCBD-12122-6

LAST UPDATED: 23 FEB 2021

### Organism information

Scientific name

Bacillus amyloliquefaciens

Taxonomic Classification

Kingdom Bacteria  
Phylum Firmicutes  
Class Bacilli  
Order Bacillales  
Family Bacillaceae  
Genus Bacillus  
Species Bacillus amyloliquefaciens

Common name(s)

BACAM

EN

Type of organism

Bacteria

### Characteristics related to biosafety

#### Additional Information

Bacillus amyloliquefaciens is a Gram-positive, aerobic bacterium found in soil samples in nature.

Alpha amylase from B. amyloliquefaciens is often used in starch hydrolysis. B. amyloliquefaciens is also a source of subtilisin, an enzyme that catalyzes the breakdown of proteins in a similar way to trypsin.

It also produces Barnase, an extracellular guanine specific ribonuclease, and barstar is its intracellular inhibitor.

EN

Other relevant website addresses and/or attached documents

? [ATCC- Bacillus amyloliquefaciens \( English \)](#)

## Further Information

Questions about the Cartagena Protocol on Biosafety or the operation of the Biosafety Clearing-House may be directed to the Secretariat of the Convention on Biological Diversity.

**Secretariat of the Convention  
on Biological Diversity**

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