



Biotechnica

First in Bioagronomy

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BACTOLifeAZ

A unique consortium of nitrogen-fixing bacteria

BactoLife AZ contains a specially selected bacterial culture of *Azotobacter* species together with supportive cultures. *Azotobacter* are free living soil microbes that act as nitrogen fixers taking nitrogen from the air and making it available for plant nutrition. The supportive microbes aid the activity of the *Azotobacter* and promote their colonization of the root zone.

In addition to nitrogen fixation, the microbes in **BactoLife AZ** will also assist with:

- Digestion of organic matter so it is in a form accessible to plants
- Improving soil structure by producing organic glues that bind soil crumbs.
- Producing natural plant growth stimulants (auxins etc.)
- Promoting germination and root development
- Solubilizing key nutrients; particularly phosphates and potassium.

Why choose BactoLife AZ?

The bacterial strains in **BactoLife AZ** work synergistically to support each other's growth and produce enhanced effects. They will create a 'biofilm' around roots and function very differently to bacteria left to float around in the soil water (planktonic).

The different strains of nitrogen-fixing bacteria in **Bactolife AZ** will suit different soils. If you were to purchase a product that has been optimized for one particular soil type, it may not suit your growing conditions. Consult your Biotechnica representative for further information.

Application protocols

Bactolife AZ should be applied as a soil drench.

BactoLife AZ requires a food source(s) to maximise its potential effect. This is especially true on soils deficient in organic matter. Good bacteria food sources for soils include; sugar (molasses), compost, UAN fertilizer, and humic acids (**BioHumate**).

Apply 0.25-0.5kg/ha for soil treatment pre-sowing or at planting (potatoes/woody crops).

The initial treatment should be higher in soils where the biology is likely to have been degraded; such as from sterilization, fungicide treatment, extremes of pH or flooding.

0.25-0.5 kg/ha for subsequent applications.

BactoLife AZ is also suitable for 'activation'/'reconstitution' before application. This involves mixing **BactoLife AZ** into a nutrient solution at 30°C and aerating the mix for 24 hours. This process will ensure the dormant microbes are fully metabolising at the time they are introduced. Activated product must be diluted and used immediately and cannot be stored.

Consult your Biotechnica representative for crop specific protocols and more details on microbial activation.

Organic cultivation

BactoLife AZ is approved for use in organic cultivation by the Organic Farmers and Growers Association.



For more information on any of our products see www.biotechnica.co.uk