Biotechnica
First in Bioagronomy
Kings Cliffe Industrial Estate, Wansford, Peterborough, PE8 6PB, United Kingdom
Tel: +44(0)1780 781360
info@biotechnica.co.uk www.biotechnica.co.uk

BACTOLifeSD

White rot fungus for stubble digestion

A dispersible powder containing selected fungal and bacterial species that have been optimized for breaking down herbaceous material. Degrades unwanted field stubble and recycles organic matter and nutrients back to the soil for use on the following crops.

- Maize
- Wheat
- Barley
- Oilseed rape
- Oats
- Legumes

Why choose BactoLife SD?

Converting residual crop material containing high levels of lignin and cellulose to humus requires a series of biological steps that, left to nature, can take long periods of time. So starting the process with selected microbes, and balancing the nutrients required by these microbes, can significantly shorten the process.

In addition to quickly freeing up the top soil for future planting, **BactoLife SD** will also improve organic matter content. The organic matter content of agricultural soils has been neglected for many decades, but is essential for humus production and is a key source of essential nutrients.

Application protocols

Can be applied as a drench, or through irrigation lines.

Apply **BactoLife SD** at 3-4 kg/ha diluted in 200L of water.

The effectiveness of **BactoLife SD** is optimized if applied alongside UAN fertilizer, molasses, and/or **BioHumate** all of which act as easily available microbial food sources to allow the fungi to start their growth. 30K/ha nitrogen and 5 litres/ha of molasses to initiate breakdown. **Bactolife SD** is also suitable for activation; see below.

Activation

With activation **BactoLife SD** is used at 1kg/ha.

To activate add 1kg to 20L/ha of clean water together with 500ml of molasses and leave to brew for 6-24 hours. Aeration should be performed if facilities are available. Aeration units can be purchased as purpose built bio-brewers / compost tea brewers, or easily made from a large plastic drum, an aquarium pump, piping, and an air stone. It is important to avoid violent re-circulation. Activation can take place in any open

vessel (barrel, IBC etc.). Activation in sealed vessels should always be avoided for safety reasons (pressure build-up) and to optimize oxygen requirements for aerobic growth of microbes.

After aeration the rich bio-brew should be applied at 20L/ha together with 10L/ha of molasses and 10-30kg/ha of nitrogen preferably from urea or liquid nitrogen, made up to 200L/ha with clean water.

Activated product must be diluted and sprayed immediately and cannot be stored.

Once applied, the stubble can then be worked into the soil.

Compost activation

BactoLife SD also makes an effective compost activator/accelerant.
Make up a solution containing 0.5kg of **BactoLife SD** dissolved in 100 litres of clean water together with 5kg brown sugar and 15 litres of liquid nitrogen (UAN). Spray this mix over the compost to wet and disperse thoroughly without soaking. Turn regularly and maintain 55-60% moisture.

Incompatibilities

No known incompatibilities, but Biotechnica cannot predict or guarantee mix success for any product. For dispersible formulations conduct a bucket test to confirm compatibility.

Effects of microbial products are always limited in cold weather/soils.

For agricultural use only.

See the accompanying Safety Data Sheet (SDS) for full handling and storage instructions.

Organic cultivation

Bactolife SD is approved for use in organic cultivation by the Organic Farmers and Growers Association.

ORGANIC FARMERS & GROWERS

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