



KOFASIL® LIFE

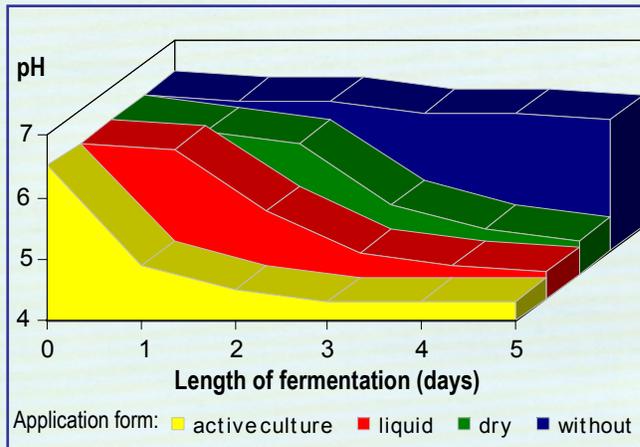
DLG approved



Categories

- 1b, 1c Improving fermentation
- 4a Improving feed intake
- 4b Improving digestibility
- 4c Improving animal performance

KOFASIL® LIFE is an inoculant for self-cultivation on farm, which contains homofermentative lactic acid bacteria and propionic acid bacteria. **KOFASIL® LIFE** cultures are already fully metabolically active at application, thereby reducing pH faster and more significant in the early, most important stages of fermentation than any other application forms of inoculants.



Treatment of forages with **KOFASIL® LIFE** leads to improved fermentation pattern which is characterized by higher lactic acid content, lower acetic and butyric acid levels and reduced protein breakdown. Consequently, fermentation losses are reduced and silage nutrient concentration is enhanced.

Item	clover		grass-clover-mix	
	without additive	KOFASIL LIFE	without additive	KOFASIL LIFE
pH	5.2	4.7	4.6	4.0
Lactic acid (% DM)	5.8	8.6	4.2	7.2
Acetic acid (% DM)	3.5	2.2	2.9	1.3
Butyric acid (% DM)	1.3	0.3	7.3	0.3
NH ₃ -N (% total N)	13.3	9.2	10.6	3.6

Inoculant to improve fermentation quality of silages from grass, legumes and whole-crop cereals

- metabolically active already at time of application to forage
- lactic acid production also at low pH
- highly osmotolerant (capacity to grow at high DM levels)
- utilization of a wide range of fermentable carbohydrates

Fast acidification results in early elimination of undesired micro-organisms (e.g. clostridia, enterobacteria) and improves silage quality.

Compared with untreated silages, forages inoculated with **KOFASIL® LIFE** are more efficiently utilized.

Trial	Live weight gain (g/head/day)		
	without additive	KOFASIL LIFE	effect (relative)
grass silage	840	972	+15.7%
grass silage	445	524	+17.8%
clover-grass-silage	1,308	1,450	+10.9%

Self-cultivation on farm

Self-cultivation is user-friendly, not requiring special equipment. Simply fill 5 Litres of hand-warm tap water in the canister and shake thoroughly. Incubate at room temperature (20-22 °C). After about 24 hrs, the colour of the suspension changes from initially purple to yellowish, indicating onset of bacterial growth. The product is ready for use after 48 hrs of incubation, then showing a dark yellow colour.



Application rate

Prior to application, dilute the content of the 5l canister with either 70 or 145 litre of water to respectively give a treatment rate of 1 or 2 litres per tonne of forage.

Forage type	DM range	Dosage (Litres/tonne forage)*
intensive grass (general)	30-50%	1 - 2
intensive grass (<i>Lolium</i> species)	25-50%	1 - 2
extensive grass	30-50%	1 - 2
green cereals (until flowering)	25-40%	1 - 2
whole-crop cereals (dough stage)	35-50%	1 - 2
lucerne, lucerne-grass-mixes	35-50%	1 - 2
clover, clover-grass-mixes	30-50%	1 - 2

*low application volume only recommended for chopped forage

Packaging

2 x 5 Litres PE canister, containing 500 g net bacteria and growth medium (treats 2 x 75 t fresh forage)

Manufacturer

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Dosing

KOFASIL® LIFE is applied directly at chopper, forage wagon or baler by suitable dosing equipment.

The new injection applicator of our partner SILA GmbH, Bitterfeld (see picture below) is strongly recommended. In this applicator system, **KOFASIL® LIFE** concentrate is continuously admixed into the water flow and applied to the forage. This applicator can also be used to apply chemical silage additives if adverse weather conditions require their use.



Technical details

Active ingredients:

Lactobacillus plantarum (DSM 3676; 3677)
Propionibacterium spp. (DSM 9576; 9577)

Inoculation rate:

If correctly cultivated - min. 400.000 bacteria / g forage to be ensiled

Storage / Shelf-life:

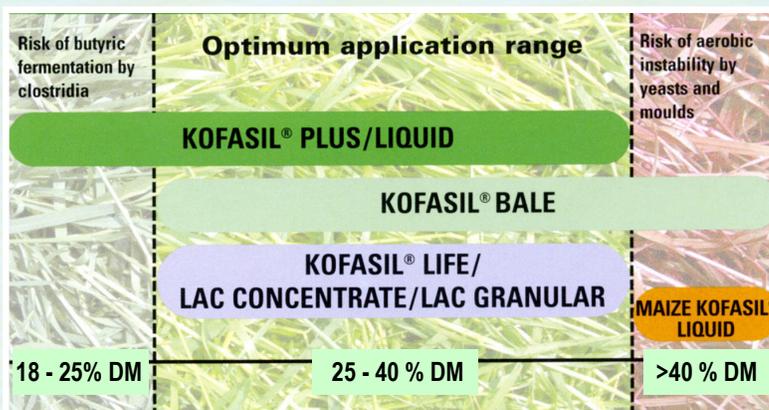
Cool, dry and dark. Shelf-life in sealed original packages from production date at room temperature min. 1 year; in freezer (-18 °C) 3 years.

Activated cultures can be stored at room temperature for 10-14 days and in the fridge (-4 °C) for up to 4 weeks without loss of activity. Diluted activated cultures must be used within 24 hours after preparation.

Legal classification:

Bacteria contained in **KOFASIL® LIFE** have been notified in accordance with Directive (EC) No. 1831/2003 as technological additives (functional group: silage additives).

The KOFASIL® product range



Attention! Aerobic instability!

At high DM levels (>40%), silage may become prone to aerobic deterioration. In this condition we recommend to treat the upper layers (upper third of the clamp) with fungal inhibitors, e.g. **MAIZE KOFASIL® LIQUID**.