



## SafSour LB 1™



BACTERIA

### A KETTLE-SOURING BACTERIA THAT RESPECTS THE YEAST FLAVOR EXPRESSION

SafSour LB 1™ has been selected by Fermentis specifically for its capabilities to provide a precise acidity related to the combined production of **lactic and acetic acids**.

SafSour LB 1™ is a **heterofermentative lactic acid bacteria** recommended to produce any balanced sour beers, such as Gose, Berliner Weisse and other fruity sour beers.

### Ingredients:

Bacteria (*Levilactobacillus brevis*); Maltodextrin as a carrier

### Properties:

- SafSour LB 1™ acidifies **non-hopped** wort within **30h – 48h** at a temperature of 32°C (89,6°F) - (+/- 5°C - 41°F).
- SafSour LB 1™ as heterofermentative lactic acid bacteria, produces lactic acid and acetic acid.
- SafSour LB 1™ presents a **low tolerance** towards iso alpha acids (half of the SafSour LB 1™ growth is inhibited, IC<sub>50</sub> of 10 ppm).
- SafSour LB 1™ reaches a final **pH of 3,6 – 3,9** typically.

### Dosage:

The optimum dosing rate is 10 g/hL – 1,33 oz/gal.

### Instruction of use:

It is recommended to **pitch directly** into the non-hopped wort at the temperature of 32°C/89,6°F (+/- 5°C - 41°F).

### Microbial analysis:

Dry matter:	> 90%
Viable cells at packaging:	> 1.5x10 <sup>11</sup> cfu/g
Acetic acid bacteria:	< 1000 cfu/g
Coliforms:	< 100 cfu/g
Yeasts:	< 1000 cfu/g
Mold:	< 1000 cfu/g



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## Storage:

Product may be transported at ambient temperatures, ideally not more than 30°C for prolonged periods of time, i.e. a maximum of 14 days. Peaks of up to 40°C/104°F are allowed.

Must be stored in a **cool and dry conditions** (< 4°C/39.2°F).

## Shelf life:

Best if used within 36 months after production date when stored under **cool temperatures** < 4°C/39.2°F. Refer to the packaging for "Use Best Before Date." Do not use soft or damaged sachets.

## Safety:

SafSour LB 1™ is sensitive to all clinically relevant antibiotics and presents no risk of antibiotic resistance genes diffusion. Biogenic amines-free.

### NOTE:

- ✓ We strongly advise users to make fermentation trials before any commercial usage.
- ✓ *Levilactobacillus brevis*, as a heterofermentative lactic acid bacteria, produces lactic/acetic acids in a w/w ratio varying with oxygenation rates (typical value in lab scale conditions vary from 1,6 for fully aerated wort to 3,8 in absence of O<sub>2</sub>).



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