

The new, improved inoculant range from Kelvin Cave Ltd

Proven biological silage
additives for better silage



KELVIN CAVE LTD

Biological silage additives can improve the fermentation of silage by dominating the microbial population of the forage. This helps to lower the pH of the silage quickly, ensuring better retention of true protein and a more palatable feed with higher intake potential than untreated silage.

Activator Plus

Activator Plus contains a proven strain of *Lactobacillus plantarum* which dominates the naturally occurring microorganisms on the crop and speeds up the rate of fermentation. When used at the recommended rate, Activator Plus supplies 1,000,000 bacteria per gram of forage. This results in more efficient fermentation*, significantly lower DM losses*, greater retention of true protein*, reduced risk of butyric acid production* and improved palatability and Daily Liveweight Gain.**

*IBERS ** ADAS Liscombe

Activator Plus is ideal for use on all grass silages in the dry matter range 18-28%, and also produces excellent results on lucerne silage and in crops with high clover content, where lower sugar levels and raised protein value can adversely affect efficient fermentation. Activator Plus is suitable for use on organic farms.

Robust, independent trials have demonstrated that feeding Activator Plus-treated silages results in increased milk yield, milk protein content, fat yield, protein yield and lactose yield.***

***Wye College

Milk Production	Untreated Silage	Activator Plus-treated Silage
Milk Yield (kg/cow/day)	29.6	30.9
Fat yield (kg/cow/day)	1.28	1.33
Protein yield (kg/cow/day)	0.88	0.94
Lactose yield (kg/cow/day)	1.36	1.42

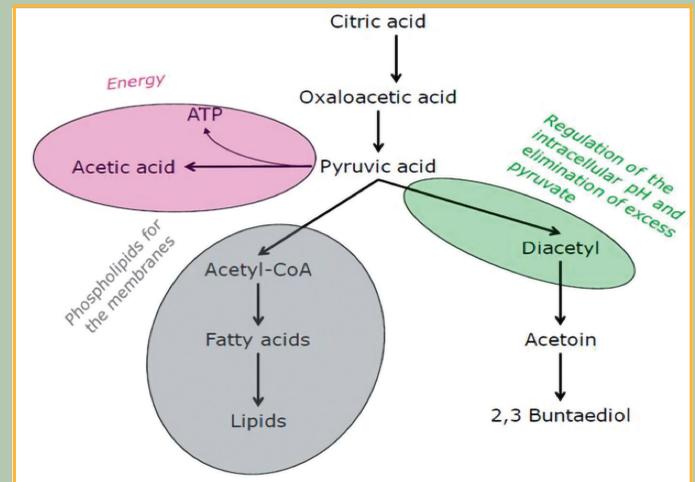
Pro-Active Bio

With its proven ability to promote successful fermentation in more difficult to ensile crops such as clover silages and arable silages that include legumes, Pro-Active Bio combines

the same strain and level of *Lactobacillus plantarum* as Activator Plus together with a unique strain of *pediococcus pentosaceus* to support the lactic fermentation and improved animal performance. The inclusion of *Lactobacillus brevis*, which has been proven to improve aerobic stability in higher dry matter silage, completes the winning package. Pro-Active Bio is suitable for use on organic farms.

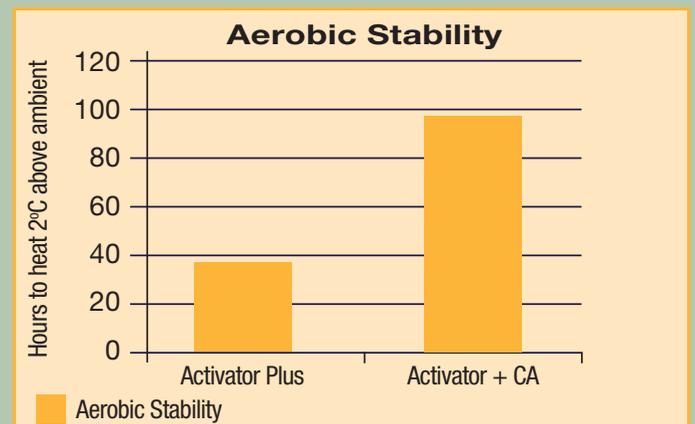
Activator + CA

Activator + CA combines all the improved fermentation and animal performance benefits of Activator Plus with a specific citrate which is an additional food source for the *Lactobacillus plantarum*. During fermentation the citrate is converted to the powerful yeast-inhibiting compounds acetic acid and diacetyl. Activator + CA can more than double the length of time it takes for treated silage to become aerobically unstable, thereby reducing feedout losses and expensive waste.



Pathways of citric acid degradation by lactic acid bacteria. Renauf and Murat 2010

Activator + CA is ideal for use on higher DM grass silages (28%DM +), wholecrop cereal and arable silages, maize silage and crimped cereals and is suitable for use on organic farms.



Kelvin Cave Ltd operate a policy of continuous product improvement and innovation. Details are correct at the time of going to press but may be subject to change over time. If in any doubt please contact your Kelvin Cave representative. March 2019 © Kelvin Cave Ltd.



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All you need to grow