

# Opti.Form® Ace P13

A cost-effective shelf life solution



 Cost-effective

 Extend shelf life

 Low use level

## About Opti.Form Ace P13

Opti.Form® Ace P13 belongs to Corbion Purac's Opti.Form line of products which have a balanced formulation of lactate and acetate salts which are widely used in meat and poultry products. Opti.Form Ace P13 is a liquid blend of potassium lactate and sodium diacetate. Opti.Form Ace P13 is designed to extend shelf life at lower use levels, with familiar ingredients.

### Cost-effective

The combination of lactate and high level of diacetate increase product antimicrobial performance. Opti.Form Ace P13 allows you to improve cost effectiveness compared to conventional preservative formulations.

### Extend shelf life

The effective combination of lactate and diacetate is a proven inhibitor for microbial growth. Opti.Form Ace P13 is recommended to be used at levels up to 1.5%, enabling a shelf life extension over 100%.

### Low use level

Opti.Form Ace P13 is formulated with high levels of diacetate and increased solids level, enabling you to reduce addition level compared to conventional antimicrobials.

## Estimated effect of Opti.Form Ace P13 on shelf life

Opti.Form Ace P13	Shelf life extension
0.5%	max 45%
1.0%	max 80%
1.5%	max 130%



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## Target use

Opti.Form Ace P13 can be used at low use levels or to replace Opti.Form PD4 in a wide variety of cured cooked meat items, including frankfurter, cooked sausage and ham.

Figure 1 shows the shelf life extension of cured sausage formulation with addition of Opti.Form Ace P13. A cooked sausage formulation was inoculated with a cocktail of *Lactobacillus* bacteria. The control product has a shelf life of about 14 days. Addition of 1.4% Opti.Form Ace P13 resulted in a shelf life of 30 days, an extension of more than 100%.

## Effect of Opti.Form Ace P13 on *Lactobacillus* in vacuum packed cured sausage at 4°C/39°F

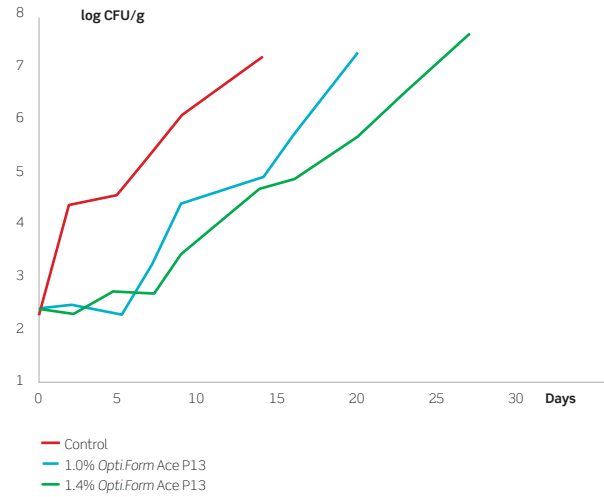


Figure 1

### Parameters cooked cured sausage

Moisture level	60%
Salt	2.5%
pH	6.3
aW	0.972
Opti.Form Ace P13	1.0%/1.4%

### Opti.Form Ace P13

Form	Liquid
Labeling	Potassium lactate (60%) Sodium diacetate (13%)
Target use level	0.5-1.5%
Sodium impact on product	Low



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