

# Opti.Form<sup>®</sup> Ace P37

A low cost *Listeria* control solution



 Cost-effective

 *Listeria* control

 Low use level

## About Opti.Form Ace P37

Opti.Form Ace P37 belongs to Corbion Purac's Opti.Form line of products which are the gold standard in *Listeria* control. Opti.Form Ace P37 is a liquid blend of potassium lactate, potassium acetate and sodium diacetate. Opti.Form Ace P37 enables you to maintain safety levels while saving cost of safety ingredients up to  $\pm 50\%$ .

### Cost-effective

Opti.Form Ace P37 was designed to provide protection against *Listeria* growth at a reduced cost in use compared to traditional Opti.Form products. High levels of acetate and diacetate reduce the addition level, resulting in a savings of up to  $\pm 50\%$  cost in use.

### Listeria control

The effective combination of lactate, acetate and diacetate is a proven inhibitor for *Listeria* growth. Opti.Form Ace P37 can be used at levels up to 1.78% of the finished product which allow for up to 120 days shelf life. Above that, the level of sodium diacetate will exceed the regulatory use level of 0.25%.

### Low use level

High diacetate and acetate levels enable you to reduce addition level by up to 55% compared with standard Opti.Form products.

### Targeted use

Opti.Form Ace P37 is recommended for use in a variety of cured RTE meat items. The high levels of acetate and diacetate can have a moderate effect on the flavor profile of the finished product.

## How much is needed to acquire similar safety levels?

Use level Opti.Form PD4	Use level Opti.Form Ace P37	Reduction addition level up to	Cost in use reduction
2.5%	1.1%	55%	$\pm 50\%$
3%	1.4%	50%	$\pm 50\%$
3.5%	1.6%	55%	$\pm 50\%$



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## Listeria Control Model 2012

Corbion Purac offers a unique tool – The newly updated and expanded *Listeria* Control Model 2012. This online model is easy to use and is at the forefront of predictive growth modeling. It is adjustable for eight food characteristics and allows you to predict the effect of *Opti.Form Ace P37* in your meat products.

The predicted growth is based on specifically designed and validated *Listeria* challenge studies. Predictions are depicted by the model in two ways.

- ▶ The 95% line; 95% of all growth is expected to be more slowly than this line.
- ▶ The “best fit” line; the most probable outcome for growth.

Go to [www.corbion.com/lcm](http://www.corbion.com/lcm) to find out more.

## Predicted effect of *Opti.Form Ace P37* on suppression of *Listeria monocytogenes* in ham at 4°C/39°F

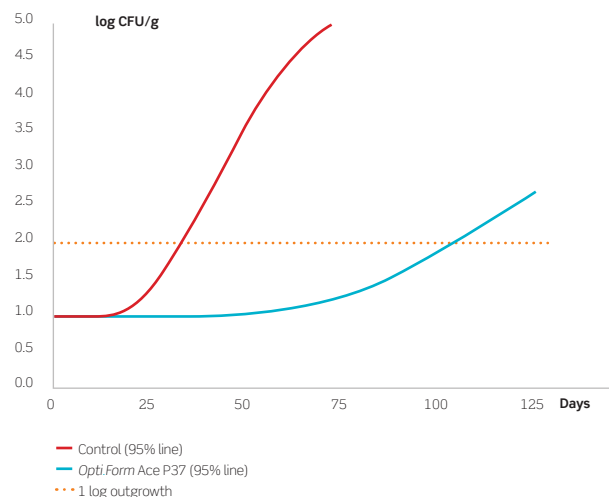


Figure 1

Figure 1 shows the predicted growth of *Listeria* in a typical ham formulation. Product parameters used are shown in the table. The control product is expected to reach 1 log of outgrowth not before 32 days (95% line). Addition of 1.4% *Opti.Form Ace P37* shows that *Listeria* is expected to be suppressed for at least 101 days (95% line).

Parameters ham (Figure 1)	
Moisture level	70%
Salt	2.1%
pH	6.3
aw	0.962
<i>Opti.Form Ace P37</i>	1.4%

<i>Opti.Form® Ace P37</i>	
Form	Liquid
Labeling	Potassium lactate (23%) Potassium acetate (23%) Sodium diacetate (14%)
Target use level	1-1.7%
Sodium impact on product	minor



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With over 80 years of fermentation expertise and the use of natural raw materials to produce exceptional food and beverage ingredients, Corbion Purac has a wealth of expertise in the world of biobased food ingredients. Corbion is the global market leader in lactic acid, lactic acid derivatives and lactides, and a leading company in functional blends containing enzymes, emulsifiers, minerals and vitamins. Corbion operates 10 production plants, in the USA, the Netherlands, Spain, Brazil and Thailand, and markets its products through a worldwide network of sales offices and distributors.

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