



**International**  
Animal Health Products

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**Pro(N8)ure® SFP**

# PRO(N8)URE® SFP

*In Sync with Nature*



Pro(N8)ure SFP contains the best-performing probiotic bacteria selected by testing a panel of candidates known for their ability to inhibit major food pathogens. The selected strains were chosen for their superior and complementary activities.

### *Suitable for:*

- Loose, pelleted or extruded feeds • Mash • Premixes • Supplements
- Liquid feeds • Molasses licks • Poured and compressed blocks

# Antimicrobial Properties of Pro(N8)ure® SFP

The selected strains of *Bacillus* showed inhibition of 7x food pathogens with each strain in Pro(N8)ure SFP contributing to the inhibition effects.

## Pro(N8)ure strains

*Bacillus subtilis*,  
strain IAH 3001

*Bacillus licheniformis*,  
strain IAH 3002

*Bacillus amyloliquefaciens*,  
strain IAH 3003

## Food Pathogens inhibited:

1. *Clostridium perfringens*
2. *Campylobacter jejuni*
3. *Listeria monocytogenes*
4. *Staphylococcus aureus*
5. *Salmonella typhimurium*
6. *Escherichia coli*
7. *Bacillus cereus*

THE SELECTED PANEL OF  
3 PROBIOTIC STRAINS  
WERE ABLE TO INHIBIT  
ALL 7X FOOD PATHOGENS.

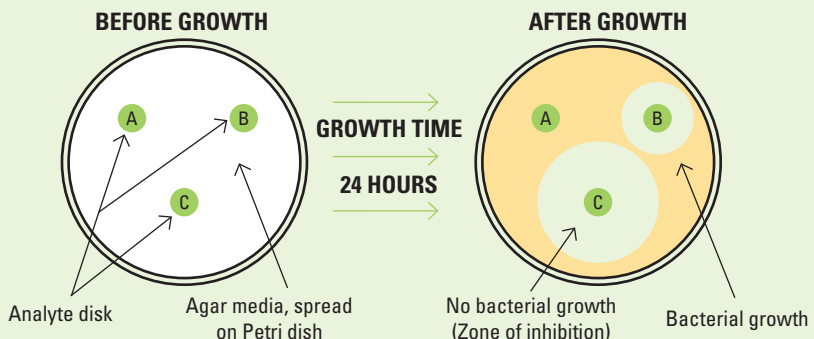
**NOTE: Results show Strains 1, 2 and 3 are the best.**

**All candidates were submitted for testing after building a shortlist via a comprehensive search for the most bioactive strains available.**

**After reviewing the test results, the three best *Bacillus* strains were chosen for inclusion in Pro(N8)ure SFP.**

## Visualising Inhibition:

**Petri-dish method:** The most active probiotics give the biggest zones of inhibition of the pathogen

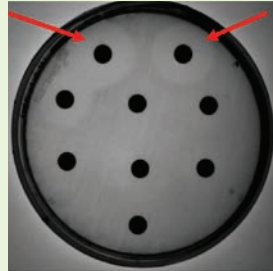


## IAH Testing of candidate probiotics

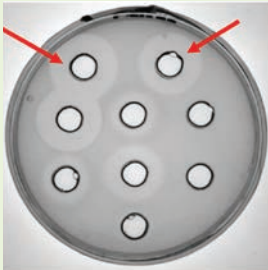
Each plate shows 1 of the pathogens vs. several of the candidate probiotic  
Arrows show Pro(N8)ure SFP strains - inhibiting each pathogen



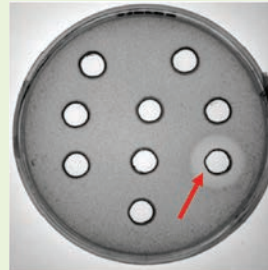
1. *Clostridium perfringens*



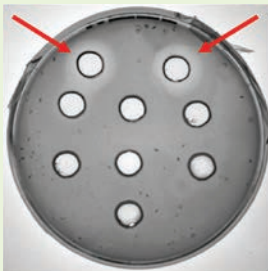
2. *Campylobacter jejuni*



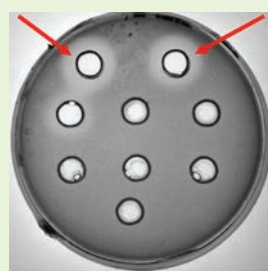
3. *Listeria monocytogenes*



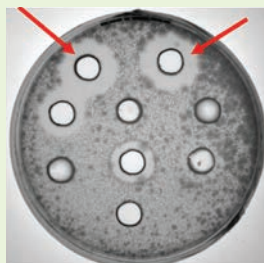
4. *Staphylococcus aureus*



5. *Salmonella typhimurium*



6. *Escherichia coli*

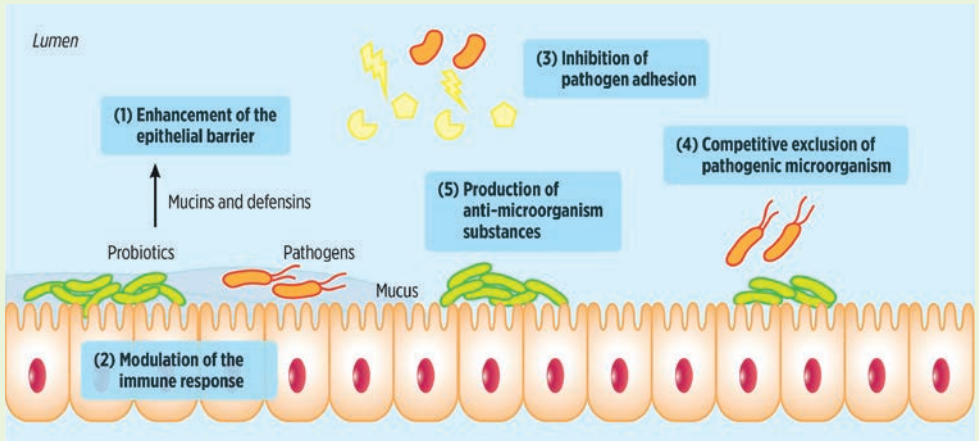


7. *Bacillus cereus*

## Zones of inhibition for all 7x food pathogens

Indicator pathogen	Size of zone (mm) (average)
Clostridium perfringens	26.0
Campylobacter jejuni	25.6
Listeria monocytogenes	26.3
Staphylococcus aureus	22.5
Salmonella typhimurium	21.0
Escherichia coli	22.3
Bacillus cereus	24.1

## Major mechanisms of action for probiotics include:



### ✓ RESIST EFFECT OF PATHOGENS

- Competition for nutrients
- Production of inhibitory substances
  - Reduced gut pH
- Reduced pathogen attachment

### ✓ ENHANCED NUTRITION

- Produce digestive enzymes
- Produce beneficial nutrients

### ✓ PROTECTION OF GUT LINING

- Competitive blocking of attachment by pathogens
- Enhanced barrier function

### ✓ BENEFITS TO IMMUNITY

- Resistance to inflammation
- Modulation of innate immunity

## Just some of the benefits noted in the literature of the actives within Pro(N8)ure - SFP



- Supporting your animals' natural good bacteria within the gut by lowering the pH, reducing ammonia, phenols and other potentially harmful compounds
- Improved digestion and feed efficiency in all livestock <sup>(1, 2, 3, 4)</sup>
- Reducing pathogenic pressure in the gut <sup>(3, 5, 6)</sup>
- Improved productivity, average daily gain and final body weight in pigs <sup>(1)</sup>
- Improved productivity, nutrient digestion and increased milk production. <sup>(7, 8)</sup>
- A significant increase in fat and protein in milk, reduced mortality of lambs deaths associated with diarrhoea caused by *E.coli* <sup>(7)</sup>
- Increased rate of rumen development in calves and increased growth performance by improving average daily gain (ADG) and feed conversion efficiency (FCE) as well as by advancing the weaning age of calves <sup>(2, 9)</sup>
- A promising alternative to antibiotics in feed <sup>(10)</sup>
- Maybe useful for improving the adverse effects of heat on egg production and gut health of laying hens <sup>(11)</sup>
- Improved response to vaccination in broilers <sup>(12)</sup>

References: 1. EFSA, 2010 2. Sun et al, 2010 3. de Oliveira et al, 2019 4. Fusconi et al, 2015  
5. Kampf, et al, 2012 6. Adhikari et al, 2019 7. Kritas et al, 2006 8. Peng et al, 2011  
9. Sun et al, 2011 10. Guo et al, 2006 11. Deng et al, 2012 12. Molnar et al, 2011



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