

# Endophyte Options

Using Endophytes in your permanent pasture mixes improves animal health providing better animal performance, more palatable pasture, and easier pasture management.

The different types of Endophyte currently available are: AR1, AR6, AR37, Endo 5, and NEA2.

## **AR1 Endophyte:**

Ryegrass with AR1 endophyte is a non-staggering endophyte that has excellent animal performance. However, the Peramine does not give good resistance against Black Beetle, and care is needed in areas with high Black Beetle numbers, such as the northern half of the North Island. AR1 endophyte has now been extensively field-tested for animal safety and productivity, and is now available commercially in a number of ryegrass cultivars.

AR1 in ryegrass gives:

- Better liveweight gains and milk production than wild-type endophyte ryegrass
- No ryegrass staggers
- No heat stress
- Less dags and flystrike
- No prolactin depression
- Excellent control of Argentine stem weevil
- Pasture productivity similar to that of wild-type endophyte ryegrass
- Better pasture persistence than endophyte-free ryegrass



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## **AR6 Endophyte:**

These are non-staggering endophytes that provide the equivalent insect protection of AR1, with the additional benefit of resistance to Black Beetle through the presence of low to moderate levels of Ergovaline. AR6 pastures are likely to persist better than AR1 pastures in areas with high Black Beetle numbers, such as the northern North Island.

## **AR 37 Endophyte:**

Ryegrass with AR37 gives you simple, economical insect control and around the clock protection from most pasture pests. AR37's continual and superior insect protection ensures maximum pasture production and better pasture persistence allowing higher animal productivity.

### Benefits:

- AR37 provides greater insect protection than any commercially available ryegrass endophyte.
- Provides continual protection against Argentine Stem Weevil, Adult Black Beetle, Pasture Mealy Bug, Root Aphid and Porina.
- Improves tiller density and persistence of perennial ryegrass.
- Maximises animal performance.
- Provides higher pasture productivity allowing higher animal productivity and more profit.



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## **Endo 5 Endophyte:**

Ryegrass with Endo5 protects against a range of pasture insect pests including Argentine Stem Weevil, Adult Black beetle and Pasture Mealy Bug. Farmers using tetraploid ryegrass to improve animal productivity will choose Endo5 to increase pasture persistence.

### Benefits:

- Endo5 provides excellent insect protection for tetraploid ryegrasses.
- Provides continual protection against Argentine Stem Weevil, Adult Black Beetle and Pasture Mealy Bug.
- Does not produce lolitrem B, a compound known to cause ryegrass staggers.

## **NEA2 Endophyte:**

Ryegrass with NEA2 endophyte protects against insect pests including Black Beetle, while the risk of ryegrass staggers is minimal.



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