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 **nem**

# EasyRhiz™

**Legume  
Inoculant**

**Pasture & Pulse  
Legume Crops**

**Rhizobium –  
Biological  
Nitrogen Fixation**

Exclusive formulation; soluble concentrated powder. Improves plant performance, yield gains and increases biomass for the following crops.



*Active Ingredients: Rhizobial Strains 1x10<sup>12</sup> cfu/vial at time of manufacture.*



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 [nem.com.au](http://nem.com.au)

# Benefits: of Rhizobia Technology

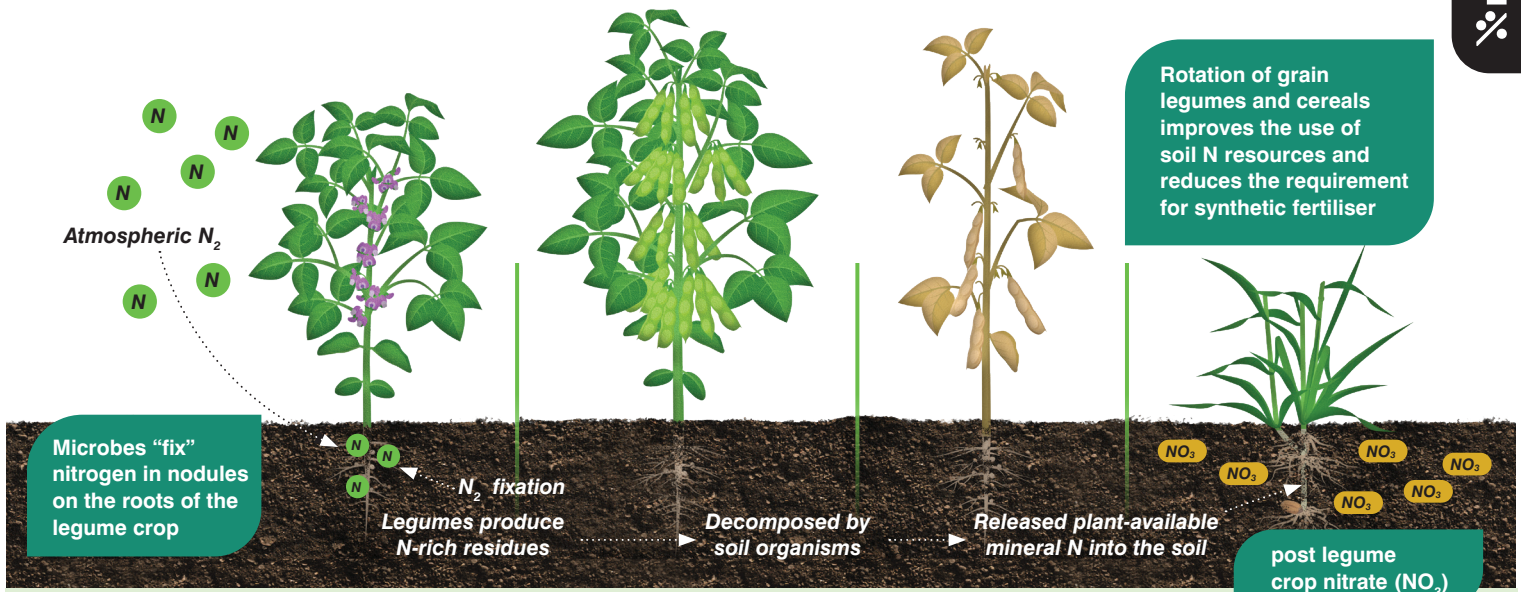


LEGUME INOCULANT  
EasyRhiz™ TDS / PASTURE & PULSE



Soil bacteria called *Rhizobia* works together with legume plants to take atmospheric nitrogen ( $N^2$ ) found in soil air spaces and 'fixes' it to the plant root system to form root nodules.

EasyRhiz™ is manufactured with highly productive *Rhizobia* strains that significantly improve crop yields even when background *Rhizobia* is present in the soil.



Compact and easy to store.



Easy to mix, readily dissolves in water and stays in suspension.



Free nitrogen.



No withholding periods.



Ideally suited for water injection application.

Provides the opportunity to separate Rhizobia from toxic chemicals, such as fungicides applied to the seed coat.



Legumes treated with the correct Rhizobium, convert atmospheric  $N^2$  into plant available N.

Estimates 30-200 kg/ha of N annually.

Equivalent to 64-432 kg of urea.



Improves cereals plant performance when grown after legume crops, with improved yields and protein.

# EasyRhiz™

## Pulse & Pasture








LEGUME INOCULANT  
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### Directions for Use

APPLICATION	<i>On-seed and In-furrow via liquid injection</i>
ON-SEED APPLICATION	For optimal performance, sow treated seed within 5 hours of inoculation into a moist soil profile (not suited to dry sowing).
DOUBLE RATE INOCULATION	Increased application rates improves results. A double rate of inoculant increases the introduced Rhizobia population and ensures optimal nodulation and plant performance.
	Doubling the rate of inoculant being applied is recommended for the following scenarios: <ol style="list-style-type: none"> <li>1. Paddocks with no recent history of the legume to be planted.</li> <li>2. Paddocks experiencing long sustained dry periods.</li> <li>3. Soil pH is below 5.2, as these soils will reduce nodulation and plant vigour.</li> <li>4. Soil with low organic matter, clay content and soil nitrate.</li> </ol>

### Recommendations

				
<b>SEED ENHANCEMENT</b>	<b>OPTIMUM EFFICACY</b>	<b>SOIL CONDITIONS</b>	<b>APPLICATION COMPATIBILITY</b>	<b>STORAGE AND SHELF LIFE</b>
For improved survivability, mix vial(s) with EasyBond Genesis Rhizobium protectant.	Sow treated seed within 5 hrs after into moist soil conditions.  Avoid sowing in the heat of the day.  Use cool, clean, non-chlorinated water (pH between 6.5 and 7.5).	To optimise performance, apply in moist soil.  Do NOT dry sow.  Do NOT sow into soil temperature above 35°C.	Do NOT tank mix with or apply directly after agricultural pesticides, fertilisers or trace elements such as zinc and copper.  Most seed treatments and pesticides are toxic to <i>Rhizobia</i> .  Excessive use of starter Nitrogen or high levels of nitrate in the soil can delay or reduce nodulation.  Contact your representative for compatibility advice.	For best results, store between 4°C-10°C.  Store out of direct sunlight.  Do NOT freeze. Do NOT store opened vial of inoculant.  This is a stabilised live biological product and should be handled and stored accordingly. Store in original containers only.  Scan QR code on product label for expiry date.

# EasyBond Genesis

## Rhizobium Protectant

<b>BENEFITS</b>	EasyBond <i>Genesis</i> improves the survivability of Rhizobium by reducing osmotic shock and desiccation, whilst also improving on-seed adhesion.
<b>HOW IT WORKS</b>	EasyBond <i>Genesis</i> is a water-soluble powder that buffers water to nourish and protect cells during reconstitution. EasyBond also helps to stick and protect Rhizobium bacteria when applied on-seed.
<b>DOUBLE INOCULATION</b>	<p>Double the inoculant rate is recommended for the following scenarios:</p> <ul style="list-style-type: none"> <li>• If planting a legume crop into a paddock for the first time</li> <li>• Paddocks with greater than 4 years without a legume</li> <li>• Acidic soils</li> <li>• Dry or wet weather conditions</li> <li>• Prolonged periods between treating and sowing</li> <li>• Where herbicide residues (particularly Group B and I) or other seeds treatments are being.</li> </ul> <p>Ratio for double rates - 2 x EasyRhiz™ Vials are mixed with 1 x EasyBond <i>Genesis</i>, and keeping the water ratio standard.</p>

EasyBond *Genesis* is sold separately.

NEM highly recommends using a Rhizobium Protectant for greater results.



SEED ENHANCEMENT  
EASYBOND GENESIS TDS / PASTURE & PULSE



# EasyRhiz™

## Legume Inoculant Chart

LEGUME INOCULANT  
EasyRhiz™ TDS / PASTURE & PULSE



Group Type	Legume	Strain	Host Plant Common Name	Concentrate Vial	Seasonality
AL	Lucerne	RR1128	Lucerne, Alfalfa, Strand and Disc Medics	100	●
AT	Lucerne	SRDI736	<b>Acid Tolerant</b> Lucerne	-	●
AM	Medic	WSM1115	Barrel, Burr, Snail, Sphere, Gama and Murex Medics	100	●
B	White Clover	TA1	White, Red, Strawberry, Alsike, Berseem, Cluster and Suckling Clovers	100	●
C	Sub Clover	WSM1325	Crimson, Cupped, Helmet, Rose and Subterranean Clovers	200	●
C	Sub Clover	WSM1325	Arrowleaf, Balansa, Bladder, Gland, Purple and Persian Clovers	100	●
H	Soy	CB1809	Soybean	500	●
I	Mung Bean	CB1015	Mung bean, Cowpea, Shaw creeping vigna, Moth, Dune, Rice and Snake bean	500	●
I	Mung Bean	CB1015	Sunn Hemp	250	●
J	Lab Lab	CB1024	Pigeon Pea, Dolichos Lablab, Hyacinth Bean	500	●
J	Lab Lab	CB1024	Perennial Horse Gram	250	●
M	Siratros	CB756	Butterfly Pea, Atro, Pueros, Tropical Kudzu	200	●
M	Siratros	CB756	Siratros, Velvet, Banana and Phasey Bean, Calopo and Glycine	100	●
P	Peanut	NC92	Peanut and Groundnut	500	●
E/F	Faba Bean & Field Pea	WSM1455	Faba, Tick and Broad Beans, Field Pea, Common, Bitter, Purple and Woolly Pod Vetch	500	●
E/F	Lentil	WSM1455	Lentil	250	●
F	Faba Bean	SRDI969	<b>NEW Acid Tolerant</b> Faba, Tick and Broad Beans	500	●
E	Field Pea	WSM4643	<b>NEW Acid Tolerant</b> Field Pea, Common, Bitter, Purple and Woolly Pod Vetch	500	●
E	Lentil	WSM4643	<b>NEW Acid Tolerant</b> Lentil	250	●
G	Lupin	WU425	Narrow Leaf and Albus Lupin	500	●
G	Lupin	WU425	Narrow Leaf and Albus Lupin, Yellow, Slender, Pink, and Hybrid Serradella	200	●
N	Chickpea	CC1192	Desi, Garbanzo and Kabuli Chickpeas	500	●
-	Adzuki bean	5G1B	Adzuki bean	200	●
-	Birdsfoot trefoil	SU343	Birdsfoot trefoil	25	●
-	Biserrula	WSM1497	Biserrula	50	●
-	Burgundy bean	CB1717	Burgundy bean	100	●
-	Centro	CB1923	Centro and Centurion	200	●
-	Caucasian Clover	CC283b	Caucasian Clover, Kura Clover	50	●
-	Common Bean	CC511	French or Common bean, Navy, Kidney, Dry, Lima beans and Black Turtle	250	●
-	Desmanthus	CB3126	Desmanthus	100	●
-	Desmodium	CB627	Desmodium	50	●
-	Fenugreek	SU277	Fenugreek	200	●
-	Guar Bean	CB3035	Guar or Cluster bean	250	●
-	Jointvetch	CB2312	American and Villosa jointvetch	100	●
-	Kenya white clover	CB782	Kenya white clover	50	●
-	Leucaena	CB3060	Leucaena	250	●
L	Lotononis	CB376	Lotononis	25	●
D	Greater Lotus	CC829	Lotus pedunculatus, Lotus and Lotus Hirsutus	25	●
-	Messina	SRDI554	Messina	-	●
-	Pinto peanut	CIAT3101	Pinto peanut	250	●
-	Stylo	CB1650	Caribbean stylo	50	●
-	Stylo	CB82	Fine stem, Townsville, Shrubby and Sticky stylo	50	●
-	Stylo	CB3481	Caatinga stylo	50	●
-	Sulla	WSM1592	Sulla	100	●
-	Tagasaste	CC1502	Tree lucerne or Tagasaste	25	●
-	Tedera	WSM4083	Tedera	-	●

EasyBond Genesis Rhizobium Protectant

Mix one EasyBond Genesis 100g packet per EasyRhiz™ vial. Sold separately.

Seasonality Type ● Pasture Inoculant ● Summer Inoculant ● Winter Inoculant ● Specialised Inoculant



SOIL



SEED

# EasyRhiz™

## Application Rates & Methods

Choose either method:

• In-Furrow via Liquid injection. **OR** • On-Seed Application.

LEGUME INOCULANT  
EasyRhiz™ TDS / PASTURE & PULSE



### On-Seed Application Method

#### Procedure

1. Select correct inoculant group type for the legume seed being sown. To select correct group type for the legume seed, refer to NEM's Legume Inoculant Group Chart.
2. Remove cap and rubber bung from EasyRhiz™ Vial.
3. Fill EasyRhiz™ vial to the shoulder with cool, clean, non-chlorinated water (pH between 6.5-7.5). Return bung, shake vigorously and leave the vial to stand for 30 minutes until the entire contents are reconstituted.
4. In a clean bucket, dissolve the EasyBond Genesis contents in the appropriate amount of cool, clean, non-chlorinated water (pH between 6.5 and 7.5) based on size of seed being treated (refer to table below for suggested volumes of water). **NOTE:** Using less water will shorten drying time but may reduce seed coverage.

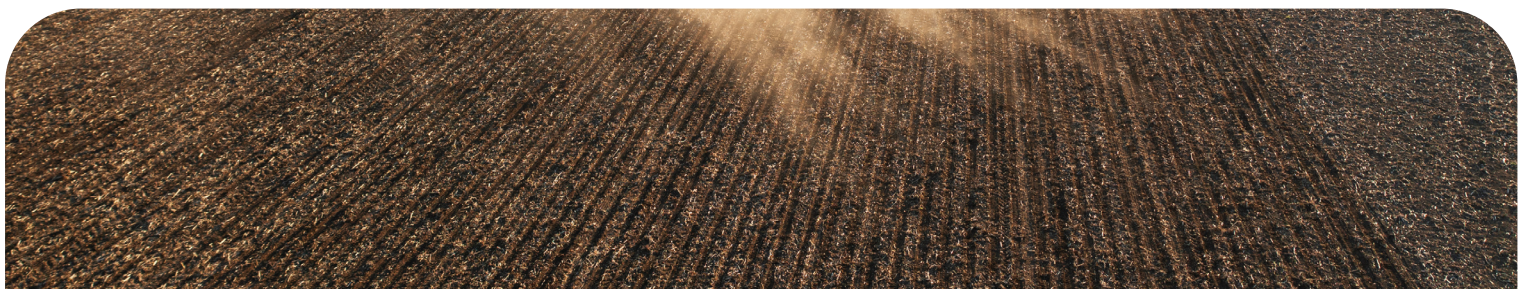
#### Mixing Ratios For On-Seed Applications

Weight	Seed Size	Water Rate
50 kg	Small	0.75 L
250 kg	Medium	1.5 L
500 kg	Large	3 L

**NOTE:** The water rates in the above table are a general guide as to what water rates can be used. Variation in seeds including size, shape, surface profile and permeability alters the efficiency of coverage, absorbance and drying time. Sufficient slurry volume (EasyRhiz™ + EasyBond Genesis + water) needs to be applied to allow the slurry to mix and spread throughout the seed, without over wetting.

5. Add the reconstituted EasyRhiz™ vial into the bucket with the EasyBond Genesis solution. Rinse vial out thoroughly to ensure entire contents are removed. Mix the solution thoroughly.
6. Apply solution to the correct weight of seed and mix until all seeds are evenly coated.

**NIL withholding period. Do not open the pack until ready to use. Refer to the Safety Data Sheet (SDS) before using. Gloves and face masks should be used while preparing and applying the product.**





# EasyRhiz™

## Application Rates & Methods

LEGUME INOCULANT  
EasyRhiz™ TDS / PASTURE & PULSE



Choose either method:

• In-Furrow via Liquid injection. **OR** • On-Seed Application.

### In-Furrow via Liquid Injection Method

#### Procedure

1. Select correct inoculant group type for the legume seed being sown.  
To select correct group type for the legume seed, refer to NEM's Legume Inoculant Group Chart.
2. Determine the number of vials required to treat the sowing area (see formula and example tables below).

Using the following formula will determine the number of vials required to be added to the injection tank to achieve the minimum necessary amount of rhizobia in the seed furrow. The suggestion is that the number of vials are rounded up to the next whole vial as part vials do not store.

Example formula for number of EasyRhiz™ vials per 1000 L

$$\left[ \frac{\text{Sowing rate (kg per ha)}}{\text{Kg of seed treated per vial}} \right] \div \left[ \frac{\text{Water rate (L per ha)}}{1000 \text{ L (Tank size)}} \right]$$

The following 2 tables show how the variables of seeding rate (kg/ha), seed per vial (kg), liquid injection rate (L/ha) and injection tank volume (L) influence the EasyRhiz™ concentration required in each injection tank.

Crop	Faba Bean	Crop	Lentil
Sowing rate (kg/ha)	120	Sowing rate (kg/ha)	80
Seed treated per vial (kg)	500	Seed treated per vial (kg)	250
EasyRhiz™ vials/ 1000 L	2.4	EasyRhiz™ vials/ 1000 L	3.2
Rounded up to full vial	3	Rounded up to full vial	4

Injection Water rate (L/ha)	100
Tank volume (L)	1000

Tables show examples of how sowing rate (kg/ha) and water inject rate (L/ha) directly influence the number of vials required per 1000 L injection tank.

3. Remove cap and rubber bung from the required number of EasyRhiz™ Vial(s).
4. Fill each individual EasyRhiz™ vial to the shoulder with cool, clean, non-chlorinated water (pH between 6.5-7.5). Return bung, shake vigorously and leave the vial to stand for 30 minutes until the entire contents are reconstituted.
5. The application rate of rhizobia required per liquid injection tank is dependent on seed sowing rate (kg/ha), kg of seed treated per vial (kg), injection water rate applied (L/ha) and injection tank volume (L). Row spacing can vary from 20 to 50 cm but inoculation rates are calculated on seeding rate as kg/ha.
6. Add the reconstituted EasyRhiz™ vial(s) into the bucket containing 1 L of EasyBond Genesis. Rinse the vial out thoroughly to ensure entire contents are removed.
7. Fill spray tank of your liquid injection system with cool, clean, non-chlorinated water (pH between 6.5 and 7.5) and incorporate the 1 L of rhizobia inoculant preparation while filling.
8. Apply the mixed solution directly in the planting furrow.

**Note:** Ideally, the solution should be in contact with the seed at sowing.

**NIL withholding period. Do not open the pack until ready to use. Refer to the Safety Data Sheet (SDS) before using. Gloves and face masks should be used while preparing and applying the product.**



Increasing microbial diversity boosts ecosystem productivity where each beneficial species, no matter how small, has an important role to play. NEM's biological agriculture system has been developed to enhance soil health, create resilient landscapes, improve crop and pasture performance and sustainable farming futures. Learn why we are so passionate about microbes and how they can benefit you – visit [www.nem.com.au](http://www.nem.com.au)

# EasyRhiz™

**Customer Technical Support: Speak with our friendly support team if you need to seek specialist or product compatibility advice.**



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**Want to learn more?** For more information on getting the best out of EasyRhiz™ visit [nem.com.au](http://nem.com.au) or talk to your local New Edge Microbiols representative. New Edge Microbiols Pty Ltd, ABN 93 093 133 530. The information and recommendations set out in this brochure are based on tests and data believed to be reliable at the time of publication. Results may vary, as the use and application of the product(s) is beyond our control and may be subject to climatic, geographical or biological variables, and/or developed resistance. Any product referred to in this brochure must be used strictly as directed, and in accordance with all instructions appearing on the label for that product and in other applicable reference material. So far as it is lawfully able to do so, New Edge Microbiols Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions. EasyRhiz™ are/is a Registered Trademark of New Edge Microbiols Pty Ltd.