

WHY USE ALOSCA® GRANULAR INOCULANT?

- ✔ It activates on the same seasonal triggers as the sown legume maintaining the viability of the Rhizobia bacteria until required by the plant at and after germination.
- ✔ It introduces new levels of seeding programme flexibility through the ability to sow dry or to moist seed beds creating the opportunity to take advantage of warmer autumn conditions and rainfall.
- ✔ Cereals are the main cash crop on the majority of farms, therefore dry seeding the legume enables the grower to start seeding cereals on the opening rain.
- ✔ Highly suited to early sowing (including summer sowing) of shallow sown pasture species to take advantage of early season rainfall and warmer soil temperatures.
- ✔ Peat inoculants require moisture in the soil at seeding otherwise rapid mortality of the bacteria occurs (90% of cells per day).
- ✔ Buffers against seed dressings harmful to Rhizobium.

KEY POINTS OF DIFFERENCE — APPLICATION FLEXIBILITY

Seeding operation	ALOSCA Granular	EasyRhiz™ freeze dried	NoduleN™ peat
Seed moist	YES	YES	YES
Seed Dry	YES	NO	NO
Mix with seed	YES	YES (slurry)	YES (slurry)
Mix with fertiliser	YES	NO	NO
In-furrow liquid inject	NO	YES	YES (block-age risk)



PACKAGING AVAILABLE IN

25kg bags (2.5ha) 40 per pallet

500kg Bulk bags (50ha) up to 3 per pallet

AVAILABLE FROM

Your local stockist



or call the ALOSCA office to locate a dealer near you

Tel: (08) 6305 0123 | Fax: (08) 6305 0112

ALOSCA® Technologies Pty Ltd

Unit 1, 50 Attwell St Street

Landsdale WA 6065

Postal address

PO Box 1098

Wangara WA 6947

For application advice

visit our website www.alosca.com.au or call

Chris Poole: 0429 815 638

Floyd Sullivan: 0487 776 022



*Australian owned and made
for Australian conditions*



LEGUME INOCULANTS



GRANULAR

- ✔ **Easy**
- ✔ **Flexible**
- ✔ **Effective**

*Streamline your legume seed inoculation
with ALOSCA Granular Legume Inoculants*



Easy

Replaces slurry legume inoculation, simple preparation no limitations for time to sow or refrigeration required to store.



Flexible, operationally versatile formulation

Apply mixed with seed or fertiliser, sow dry or to moisture with/without seed dressings.



Effective, highly protective formulation

Reliable nodulation with moist or dry seeding. Inoculant viability maintained during unfavourable seedbed conditions. Seed ahead of rain and leave your cereal seeding window clear.

WHAT IS ALOSCA?

A granular legume inoculant based on a unique bentonite clay impregnated with commercial strains of Root Nodule Bacteria. ALOSCA granular inoculants activate on the same seasonal triggers as the sown legume when moisture is available and provides many solutions to on-farm seeding program logistical problems.



WHY WAS THE ALOSCA GRANULE DEVELOPED?

The ALOSCA granule was developed to provide a more reliable and end-user friendly delivery system for rhizobia and other beneficial soil microbes. The key feature of ALOSCA the granule is the enhanced survival of microbes during drying conditions, which leads to better survival of inoculants and ultimately greater impact on plant growth. The use of ALOSCA granules eliminates the need for slurry inoculum immediately prior to planting. ALOSCA granules can be mixed with either seed or fertiliser at seeding and can remain viable in the ground for extended periods.



APPLICATION RECOMMENDATIONS

	Row space	kg/ha
Application rates	200mm-300mm	10
	300mm-400mm	8
	400mm-500mm	6
Seeding method	ALOSCA granular can be mixed with the fertiliser, the seed or from a third box as long as it is delivered to the furrow in close proximity to the seed (deep banding is not recommended)	
Timing	Any time including dry seeding – moist seed bed not required to maintain inoculant viability prior to germinating rain	
Handling	Minimise machinery transfers which break up the granules. Keep dry during handling & application	
Pesticides	Buffers rhizobia against the harmful effects of pesticide seed dressings	

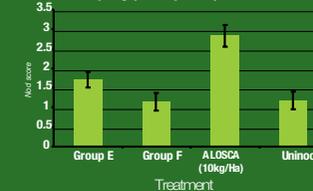
PRODUCT SPECIES APPLICATIONS

GROUP C	Trifoliolate Clovers - Sub, Balansa, Crimson, Gland, Arrowleaf, Rose and Persian clovers Perennial Strawberry and White clovers
GROUP G/S	Serradella and Lupin
GROUP BS	Biserrula Special (strain specific to Biserrula only)
GROUP AM	Annual Medics - Barrel, Burr, Sphere, Gama, Snail and Murex
GROUP AL	Lucerne, & Annual Medics- Strand & Disc
GROUP F/E	Faba Bean, Lentil, Vetch & Field Pea
GROUP N	Chickpea

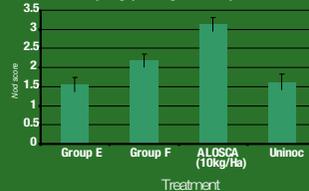
NODULATION: COMPARE THE DIFFERENCE

The trials below are some of many conducted by the Centre for Rhizobium Studies (CRS) Murdoch University in 2003-2004 and compare the efficacy of a conventional peat inoculant with ALOSCA granules when time of sowing occurred 4 weeks prior to ideal time. Field peas and Faba beans were sown into dry soil and the data returned showed firstly (in light green) the improved rate of nodulation in the ALOSCA treated plots under dry sowing conditions and subsequently with later sowing (darker green) that the ALOSCA granular inoculants performed as well the traditional peat slurry method under moist seed bed conditions.

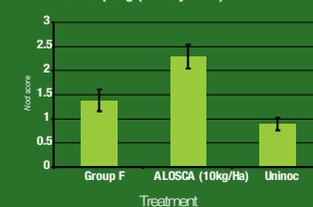
Nyabing WA Field Peas early (dry) sowing. Second sampling (17 July 2003)



Nyabing WA Field Peas late (ideal) sowing. Second sampling (25 August 2003)



Nyabing WA Faba Beans early (dry) sowing. Second sampling (17 July 2003)



Nyabing WA Faba Beans late (ideal) sowing. Second sampling (25 August 2003)



IN SUMMARY

ALOSCA granular inoculants represent a significant development in the delivery of root nodule bacteria to Australian agricultural systems. The nature of the granules gives to the bacteria a considerable edge over the traditional peat based system. Moreover, primary producers are no longer required to sow at ideal times to ensure survival of rhizobia, the dry granules offer new degrees of flexibility to sowing times without resulting in diminished nodulation.