

## Soybean seed treatment

InSync Plus™ is a seed treatment that contains Symiro™ technology to enhance nodulation and yield, whilst providing cobalt and molybdenum (CoMo) in a rhizobia compatible formulation.



### Benefits of InSync Plus

- ✓ Significant yield increase of 5.6% demonstrated in field trials
- ✓ Significant increases in nodule number
- ✓ Industry leading rhizobia safety
- ✓ Low application volume, ideal for industrial seed treatment (IST)
- ✓ Compatible with leading agrochemical seed treatments.

### Nutrient content for InSync Plus

Nutrient	%w/w	g/L
Molybdenum	21.0	300
Cobalt	2.1	30

### Symiro™ Symiro technology

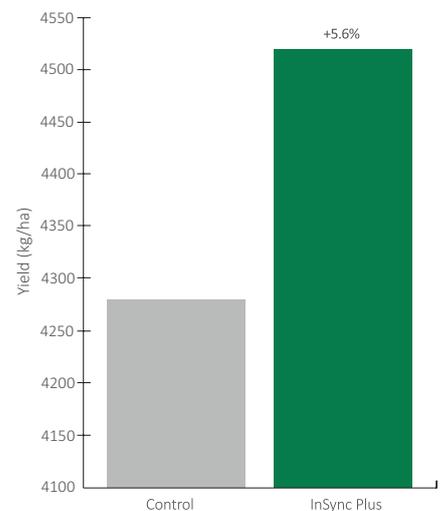
As a legume, soybeans form a symbiotic relationship with rhizobia. The resulting nodules enable nitrogen to be fixed and made available to the crop.

Symiro technology includes a naturally occurring compound that can support nodulation and hence nitrogen fixation.

Incorporation of this technology can improve photosynthesis, and crop yields.

### Proven yield uplifts

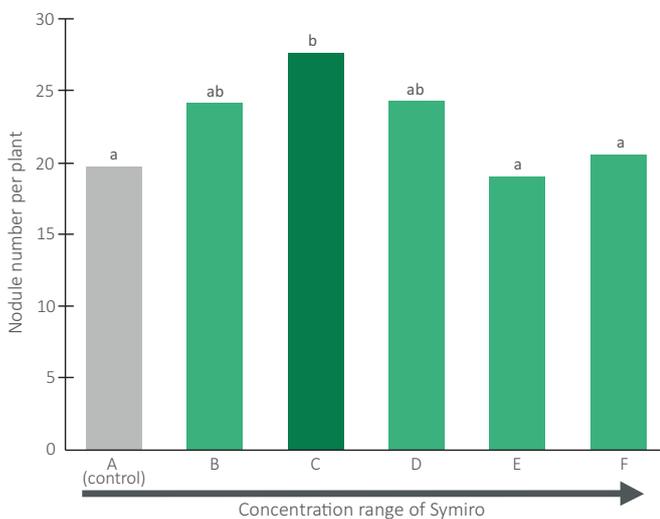
Symiro has been tested across four years of rigorous field trials, both as a standalone compound, and incorporated in InSync Plus. Field trials conducted in Brazil showed InSync Plus gave a 241 kg/ha (5.6%) yield uplift compared to the control when averaged over 15 locations, each with 6 replications. The difference was statistically significant ( $P < 0.001$ ).



## Symiro technology increases nodulation

Multiple glasshouse trials showed that application of Symiro technology significantly increases nodulation ( $P < 0.001$ ). However, the effect is very concentration dependent. When insufficient Symiro was present (concentration B) there was no significant effect on nodule number. Similarly at very high concentrations (concentrations D, E and F, which are above what would be possible when using InSync Plus), Symiro was safe but did not significantly improve nodule number. At the optimal concentration (concentration C, as used in InSync Plus) nodulation was increased by 40% and overall biomass was also increased.

InSync Plus comprises of Symiro technology built into InSync CoMo, a cobalt and molybdenum nutrient only formulation. Both products have industry leading rhizobia compatibility, with minimal effect on rhizobia survival on seed. Refer to the InSync CoMo product sheet for more information.

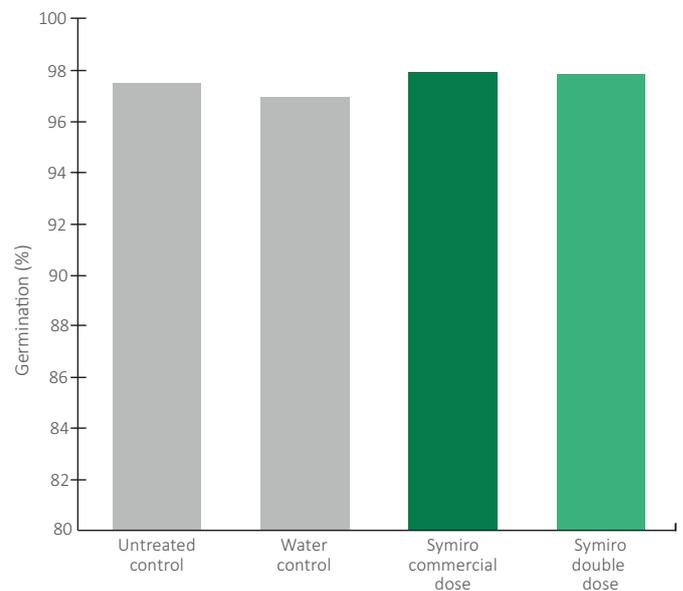


## Symiro technology is safe for germination

Seeds of two varieties and were planted 24 or 72 hours after treatment with Symiro technology. This was applied at 2 different doses (commercial and double), without CoMo, and compared to untreated and water controls. Seeds were incubated in a growth chamber at 25°C (normal conditions), 42°C for 2 days (accelerated ageing), or 10°C for 7 days (cold stress).

The technology was shown to be safe; there were no significant differences ( $P > 0.05$ ) on the number of seeds germinating under any environmental conditions.

It has been independently verified that the CoMo element of the product is also safe on seed. Refer to the InSync CoMo product sheet for more information.



### Directions for use

#### Use rate

50-100 ml per 100 kg seed

#### Industrial seed treatment (IST)

The gel formulation is designed to be pumped directly to the treatment chamber without dilution. It can be mixed with other liquid products prior to, or during, application if required.

#### On-farm treatment

InSync Plus can be mixed with other agrochemicals for co-application, or diluted with water for use alone. If using alone, add slowly to water whilst mixing.

#### Technical information

-  InSync Plus does not affect any treatment colours when applied at recommended rates
-  Gel becomes thin when pumped
-  Reduces residues in treatment chamber (IST)
-  3-year shelf life in packs of up to 1000L (IBC).

**InSync Plus**  **Symiro** 

Find more information on our seed treatment products at:  
[www.plantimpact.com](http://www.plantimpact.com) e: [info@plantimpact.com](mailto:info@plantimpact.com)