

# Handbook for Rhizobia - methods in legume-rhizobium technology

Springer-Verlag - Legume

| Table 4 Growth response of cowpea plants inoculated with rhizobial isolates or reference strains that are able to nodulate both L. coryliolate and D. incanum plants |                             |  |   |  |  |
|--|-----------------------------|--|---|--|--|
| Treatment  | Number of nodules per plant | Roots dry matter (mg plant <sup>-1</sup> ) | Root dry matter (mg plant <sup>-1</sup> ) | Shoot dry matter (mg plant <sup>-1</sup> ) | Nitrogen content (mg plant <sup>-1</sup> ) |
| NS-*   | -                           | 106.5 ± 18.5 a                             | 106.5 ± 18.5 a                            | -  | 5.61 ± 0.4 c                               |
| SEMUL 016  | 53.5 ± 7.9 b                | 108.5 ± 14.1 a                             | 87.25 ± 9.1 b                             | 112.25 ± 12.0 a                            | 14.21 ± 1.3 a                              |
| TEU 408  | 24.25 ± 9.1 b               | 71.5 ± 20.9                                | 36.5 ± 9.4 c                              | 87.5 ± 10.5 a                              | 10.1 ± 5.5 b                               |
| LRFB 3.1a  | 23.1 ± 9.2 b                | 51.5 ± 6.2 c                               | 88.25 ± 11.1 c                            | 32.25 ± 9.3 b                              | 2.61 ± 1.1 d                               |
| LRFB 3.1d  | 20.5 ± 7.9 b                | 83.5 ± 15.0 b                              | 25.25 ± 7.2 c                             | 98.25 ± 11.5 a                             | 12.51 ± 0.6 c                              |
| LRFB 3.1e  | 13.4 ± 12.0 g               | 93.25 ± 13.3 c                             | 22.25 ± 6.0 c                             | 89.75 ± 15.1 b                             | 2.40 ± 0.6 d                               |
| LRFB 3.09  | 16.75 ± 2.5 e               | 40.75 ± 4.1 c                              | 20.25 ± 4.2 c                             | 26.5 ± 6.3 b                               | 1.51 ± 0.6 d                               |
| LRFB 3.25b   | 15.5 ± 6.7 f                | 36.1 ± 6.2 c                               | 102.5 ± 9.7 a                             | 33.75 ± 4.02 b                             | 2.41 ± 0.7 d                               |
| NS-*   | -                           | 30.75 ± 6.6 f                              | 20.25 ± 6.51 b                            | -  | 0.51 ± 0.1 d                               |

\* Control treatments were performed without adding N or with 25 mg of nitrogen, as NH<sub>4</sub>NO<sub>3</sub>, per 100 g. Each treatment was composed of three replicates of two plants of L. coryliolate or S. faba (inoculated with one rhizobial culture) or six of one rhizobial culture with 1/10 dilution. Means followed by different letters in the same column differ by the Scott-Knott test ( $p < 0.01$ ).

Description: -

Spanish: Grades 4-7

Spanish language materials

Nervous system

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Rhizobium -- Laboratory manuals. Handbook for Rhizobia - methods in legume-rhizobium technology

-Handbook for Rhizobia - methods in legume-rhizobium technology

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## African Journal of Environmental Science and Technology

The nodules produced varied in size while nodule volume ranged from 1.

## Handbook for Rhizobia

Nodulation response to inoculation in the presence of high numbers of native rhizobia population is an indication that, the tested rhizobium strains are more competitive. Charcteriazation of phosphate solublizing faba bean Vicia faba L.

## Handbook For Rhizobia Methods In Legume Rhizobium Technology Classification Of Tumours PDF Book

Rhizobium strains TAL- 1035, NSFBR-15 and NSFBR-12 consistently gave a significantly higher nodulation under greenhouse and field conditions Tables , , . An examination of the Degtjareff method for determining soil organic matter and a proposed modification of the chromic acid titration method.

## Legume

Soil pH is a major determinant of numbers of naturally occurring Rhizobium meliloti in non-cultivated soils in Cental New South Wales. Lupwayi N, Haque I 1994.

## African Journal of Microbiology Research

Charcterization of symbiotic effectiveness of rhizobia nodulating faba bean Vicia faba L. Mulisa J, Fassil F 2011.

## African Journal of Microbiology Research

Symbiotic and phenotypic characteristics of rhizobia nodulating faba bean *Vicia faba* from tahtay koraro, Northwestern zone of Tigray regional state, Ethiopia. Topics include the general microbiological properties of rhizobia and their identification, their potential as symbionts, methods for inoculating rhizobia onto plants, and molecular genetics methods for *Rhizobium* in the laboratory. IBP Handbook No 15 Blackwell Scientific Publications Ltd, Oxford, 1970.

**Padma Somasegaran Heinz J Hoben**

Greenhouse and multi-location experiments were conducted for two consecutive years to investigate the effects of rhizobium on nodulation, biomass production and partitioning of faba bean. Estimation of soil rhizobia population The populations of native rhizobia, which could nodulate faba bean was determined by plant infection technique using modified Leonard jar assembly.

**Padma Somasegaran Heinz J Hoben**

Each pot assembly was wrapped with aluminum foil and autoclaved for 2.

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