



# *Rhizobium howiesonii*

BAA-3761™

## Description

*Rhizobium howiesonii* strain WSM1328 is a bacterium that was isolated in 1993 from the root nodule of *Trifolium* spp. in Serifos, South Aegean, Greece.

**Strain designation:** WSM1328

**Deposited As:** *Rhizobium howiesonii*

**Type strain:** No

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## Storage Conditions

**Product format:** Frozen

**Storage conditions:** -80°C or colder

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## Intended Use

This product is intended for laboratory research use only. It is not intended for any animal or human therapeutic use, any human or animal consumption, or any diagnostic use.

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## BSL 1

ATCC determines the biosafety level of a material based on our risk assessment as guided by the current edition of *Biosafety in Microbiological and Biomedical Laboratories (BMBL)*, U.S. Department of Health and Human Services. It is your responsibility to understand the hazards associated with the material per your organization's policies and procedures as well as any other applicable regulations as enforced by your local or national agencies.

## ***Rhizobium howiesonii***

BAA-3761

ATCC highly recommends that appropriate personal protective equipment is always used when handling vials. For cultures that require storage in liquid nitrogen, it is important to note that some vials may leak when submersed in liquid nitrogen and will slowly fill with liquid nitrogen. Upon thawing, the conversion of the liquid nitrogen back to its gas phase may result in the vial exploding or blowing off its cap with dangerous force creating flying debris. Unless necessary, ATCC recommends that these cultures be stored in the vapor phase of liquid nitrogen rather than submersed in liquid nitrogen.

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### **Certificate of Analysis**

For batch-specific test results, refer to the applicable certificate of analysis that can be found at [www.atcc.org](http://www.atcc.org).

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### **Growth Conditions**

**Medium:**

ATCC Medium 2122: YMA medium

**Temperature:** 28°C

**Atmosphere:** Aerobic

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### **Handling Procedures**

1. Open vial.
2. Rehydrate the entire pellet with approximately 0.5 mL of # 2122 broth. Aseptically transfer the entire contents to a 5-6 mL tube of # 2122 broth. Additional test tubes can be inoculated by transferring 0.5 mL of the primary broth tube to these secondary tubes.
3. Use several drops of the primary broth tube to inoculate a # 2122 plate and/or

#2122 agar slant.

4. Incubate at 28°C for 48-72 hours.

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## **Material Citation**

If use of this material results in a scientific publication, please cite the material in the following manner: *Rhizobium howiesonii* (ATCC BAA-3761)

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## **References**

References and other information relating to this material are available at [www.atcc.org](http://www.atcc.org).

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## ***Rhizobium howiesonii***

BAA-3761

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### **Revision**

## ***Rhizobium howiesonii***

**BAA-3761**

This information on this document was last updated on 2025-12-19

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