

***Phytophthora europaea* Hansen et Jung**

MYA-1022™

Description

An ampoule containing viable cells (may include spores and mycelium agar plugs) suspended in cryoprotectant.

Strain designation: Eur2-Amance1

Deposited As: *Phytophthora europaea* Hansen et Jung

Type strain: No

Storage Conditions

Product format: Frozen

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.

BSL 1

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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.

Certificate of Analysis

For batch-specific test results, refer to the applicable certificate of analysis that can be found at www.atcc.org.

Growth Conditions

Medium:

ATCC Medium 1970: V8 rye agar

Temperature: 20°C

Handling Procedures

Frozen ampoules packed in dry ice should either be thawed immediately or stored in liquid nitrogen. If liquid nitrogen storage facilities are not available, frozen ampoules may be stored at or below -70°C for approximately one week. **Do not under any circumstance store frozen ampoules at refrigerator freezer temperatures (generally -20°C).** Storage of frozen material at this temperature will result in the death of the culture.



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1. To thaw a frozen ampoule, place in a **2530 °C** water bath, until just thawed (**approximately 5 minutes**). Immerse the ampoule just sufficient to cover the frozen material. Do not agitate the ampoule.
2. Immediately after thawing, wipe down ampoule with 70% ethanol and aseptically transfer 10 microliter (or any amount desired up to all) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended.
4. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 1-2 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Notes

Special notes for reviving frozen Phytophthora culture.

Many Phytophthora strains have very low viability post-freezing and cryopreservation. For some recalcitrant strains, it often takes more than five days to show viable sign even under the optimal revival condition. It is often beneficial for them, upon thawing, to be cultured in liquid YM (yeast mold medium) supplemented with 0.1% biotin and 0.1% thiamine overnight (or until showing viability sign) and then transfer to other recommended media for continued growth and characterization. Freshly made, moist, appropriate medium is the key factor for their revival, in addition to thawing temperature (25°C for approximately 4 min, or if thawing at 55C until just thawed, be very attentive and not over stay at this temperature). Many Phytophthora strains are unable to grow at a temperature above 22C and the temperature in most incubators can fluctuate 2 degrees C around the set temperature.

In general, richer media like V-8 Juice Rye Agar (ATCC medium 1970) and PYG (peptone, yeast extract, and glucose, ATCC medium 663) are better than some of the recommended media (oatmeal medium, rye medium or cornmeal medium) in reviving frozen Phytophthora cultures. Media such as oatmeal medium, rye medium,



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cornmeal medium, lima bean medium are mainly for examining some characteristics of the strain developed during its life cycle, thus they are not necessarily the best recovery media for cryopreserved cultures. So it is a common practice that one inoculates the frozen culture sample on at least two media (one is a 5-mL liquid medium) to increase the chance of post-thawing revival.

Additional, updated information on this product may be available on the ATCC web site at www.atcc.org.

Material Citation

If use of this material results in a scientific publication, please cite the material in the following manner: *Phytophthora europaea* Hansen et Jung (ATCC MYA-1022)

References

References and other information relating to this material are available at www.atcc.org.

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Contact Information

ATCC

10801 University Boulevard

Manassas, VA 20110-2209

USA

US telephone: 800-638-6597

Worldwide telephone: +1-703-365-2700

Email: tech@atcc.org or contact your local distributor
