Cryptococcus gattii, Strain Alg115

Catalog No. NR-43215

For research use only. Not for human use.

Contributor and Manufacturer:
Alexander Idnurm, Associate Professor, School of Biological Sciences, The University of Missouri-Kansas City, Kansas City, Missouri, USA

Product Description:
Classification: Filobasidiaceae, Cryptococcus
Species: Cryptococcus gattii
Strain: Alg115
Original Source: Cryptococcus gattii (C. gattii), strain Alg115 is the progeny of a genotypic cross between C. gattii strains R265 and Alg114.1,2
Comment: C. gattii, strain Alg115 is progeny produced towards the generation of a congeneric pair.1,2 It was deposited as expressing a wild type genotype, mating type a. The parental strains, intermediate progeny, final congeneric pair and various mutants are available through BEI Resources [NR-43208 through NR-43225, Table 1 (below)].

The Cryptococcus species complex is comprised of four distinct lineages, VGI to VGIV, which are currently classified as two species, C. neoformans and C. gattii. These species are best recognized as the agents of cryptococcosis, an AIDS-defining illness.3,4

C. gattii are characterized serologically as serotypes B and C, and clinical isolates are relatively rare.3 Although cryptococcosis was historically considered to be a tropical and subtropical illness, in the late 1990’s, cryptococcal disease in healthy people, domestic pets and wildlife caused by C. gattii appeared on Vancouver Island, British Columbia and it subsequently spread to the mainland and into the northwest United States.4,5 The origin of this outbreak is unknown, though C. gattii strain R265 is known to be the causative agent.4

Table 1: C. gatti Strains

<table>
<thead>
<tr>
<th>Parental Strains</th>
<th>BEI Resources</th>
<th>Progeny</th>
<th>BEI Resources</th>
</tr>
</thead>
<tbody>
<tr>
<td>R265</td>
<td>NR-43208</td>
<td>Alg40</td>
<td>NR-43210</td>
</tr>
<tr>
<td>CBS1939</td>
<td>NR-43209</td>
<td>Alg75</td>
<td>NR-43211</td>
</tr>
<tr>
<td>R265</td>
<td>NR-43208</td>
<td>Alg81</td>
<td>NR-43212</td>
</tr>
<tr>
<td>Alg40</td>
<td>NR-43210</td>
<td>Alg99</td>
<td>NR-43213</td>
</tr>
<tr>
<td>R265</td>
<td>NR-43208</td>
<td>Alg114</td>
<td>NR-43214</td>
</tr>
<tr>
<td>Alg75</td>
<td>NR-43211</td>
<td>Alg114</td>
<td>NR-43214</td>
</tr>
</tbody>
</table>

Material Provided:
Each vial of NR-43215 contains approximately 1 mL of yeast culture in Yeast Extract Peptone Dextrose broth containing 15% glycerol.

Packaging/Storage:
NR-43215 was packaged aseptically in cryovials and is provided frozen on dry ice. The product should be stored at -80°C or colder.

Growth Conditions:
Media:
Yeast Extract Peptone Dextrose broth or equivalent
Yeast Extract Peptone Dextrose agar, Yeast Mold agar or equivalent
Incubation:
Temperature: 30°C
Atmosphere: Aerobic
Propagation:
1. Keep vial frozen until ready for use; thaw rapidly.
2. Inoculate an agar plate with approximately 50 μL of thawed culture and/or transfer the entire thawed aliquot into a single tube of broth
3. Incubate the plate and/or tube at 30°C for 2 to 4 days.

Citation:
Acknowledgment for publications should read “The following reagent was obtained through BEI Resources, NIAID, NIH: Cryptococcus gattii, Strain Alg115, NR-43215.”
Biosafety Level: 2

Disclaimers:
You are authorized to use this product for research use only. It is not intended for human use.

Use of this product is subject to the terms and conditions of the BEI Resources Material Transfer Agreement (MTA). The MTA is available on our Web site at www.beiresources.org.

While BEI Resources uses reasonable efforts to include accurate and up-to-date information on this product sheet, neither ATCC® nor the U.S. Government makes any warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. Neither ATCC® nor the U.S. Government warrants that such information has been confirmed to be accurate.

This product is sent with the condition that you are responsible for its safe storage, handling, use and disposal. ATCC® and the U.S. Government are not liable for any damages or injuries arising from receipt and/or use of this product. While reasonable effort is made to ensure authenticity and reliability of materials on deposit, the U.S. Government, ATCC®, their suppliers and contributors to BEI Resources are not liable for damages arising from the misidentification or misrepresentation of products.

Use Restrictions:
This material is distributed for internal research, non-commercial purposes only. This material, its product or its derivatives may not be distributed to third parties. Except as performed under a U.S. Government contract, individuals contemplating commercial use of the material, its products or its derivatives must contact the contributor to determine if a license is required. U.S. Government contractors may need a license before first commercial sale.

References:
1. Idnurm, A., Personal Communication.

ATCC® is a trademark of the American Type Culture Collection.