Strain Designation: NRRL Y-2311-1
Deposited Name: Aureobasidium pullulans (de Bary) Arnaud, anamorph
Product Description: An ampoule containing viable cells (e.g. yeast cells, spores) suspended in cryoprotectant.

Growth Conditions
Temperature: 20°C to 25°C
Atmosphere: Typical aerobic

Recommended Procedure
For freeze-dry (lyophilized) ampoules:
1. Open an ampoule according to enclosed instructions.
2. From a single test tube of sterile distilled water (5 to 6 mL), withdraw approximately 0.5 to 1.0 mL with a sterile pipette and apply directly to the pellet. Stir to form a suspension.
3. Aseptically transfer the suspension back into the test tube of sterile distilled water.
4. Let the test tube sit at room temperature for (25°C) undisturbed for at least 2 hours; longer (e.g., overnight) rehydration might increase viability of some fungi.
5. Mix the suspension well. Use several drops (or make dilutions if desired) to inoculate recommended solid or liquid medium.
6. Incubate the inoculum/strain at the temperature and conditions recommended.
7. Inspect for growth of the inoculum/strain regularly. The sign of viability is noticeable typically after 3-5 days of incubation. However, the time necessary for significant growth will vary from strain to strain.

Colony and Cell Morphology: After 6 days on YM medium at 25°C, colonies are cream colored, flat, smooth. Hyphae are hyaline, yeast cells ellipsoid, single or with bud.

DNA Sequence
18S ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene, and internal transcribed spacer 2, complete sequence; and 28S ribosomal RNA gene, partial sequence. 

GAAGTAAAAGTCGTAACAAGGTTTCCGTAGGTGAACCTGCGGAAGGATCATTAAAGAGTAAGGGTGCTCATAGCGCCCGACCTCCAACCCTTTGTTGTTAAAACTACCTTGTTGCTTTGGCGGGACCGCTCGGTCTCGAGCCGCTGGGGATTCGTCCCAGGCGAGCGCCCGCCAGAGTTAAACCAAACTCTTGTTATCAAACCGGTGCCTCAGTTAAAATTTTGAATAAATCAAAACTTTCAACAACGGATCTCTTGGTTCTCGCATCGATGAAGAACGCAGCGAAATGCGATAAGTAATGTGAATTGCAGAATTCAGTGAATCATCGAATCTTTGAACGCACATTGCGCCCCTTGGTATTCCGAGGGGCATGCCTGTTCGAGCGTCATTACACCACTCAAGCTATGCTTGGTATTGGGTGCCGTCCTTAGTTGGGCGCGCCTTAAAGACCTCGGCGAGGCCTCACCGGCTTTAGGCGTAGT

AGAATTTATTCGAACGCTGTCCGAACGACTCTCCGACTCGAAAC

CCTCGGATCAGGTAGGGATACCCGCTGAACTTAAG

D1D2 region of the 26S ribosomal RNA gene.

CATATCATAATACGCCAGAAAGAAAGAAGCAGCACAGGGATTGCGCCCTAGTAAACGCGAGTGGAAGCGCACA

CAGCTCAATTTAGAACTGCGCCTCGCTGCGCATTTGTAATTTTCTGAAAGATGATCTTTGCGGAACGCG

CAGCTTCAAGTCTCGTGGAAAGCAGCAGCTATCAGGAGGGATCACTCGGTATGACTGAAGATATTAC

CTATGTAATGACCTCTCGACTGACGATCGAGTTCGTTTGATGGAAATGAGCAATACGCTTAATAGGGGATTAATCTTC

TAAAGCCTTAATATTTGCGGAAGCAGCAGTAAGCCCAAAACTTAGAGTGACGAGAAGATAGAAGAAAGACTT

GGAAGAAAGGATTAAAGACGCTGAATTGTTGAAGAAAGGACGCCCTTCCACTGACAGCTTAAAAC

TGTCGCCCGGCTTCTCGAACCGGTTAACGTTGTTGCGCAAGCCAGCACTGAAGGCGCGGATAGAATC
References

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

Biosafety Level: 1

Appropriate safety procedures should always be used with this material. Laboratory safety is discussed in the current publication of the Biosafety in Microbiological and Biomedical Laboratories from the U.S. Department of Health and Human Services Centers for Disease Control and Prevention and National Institutes for Health.

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