



Product Sheet

# *Kazachstania intestinalis* (ATCC® MYA-4658™)

Please read this **FIRST**



Storage Temp.  
**Frozen: -80°C or colder**  
**Freeze-Dried: 2°C to 8°C**  
**Live Culture: See Propagation Section**

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Biosafety Level  
**1**

## Intended Use

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

## Citation of Strain

If use of this culture results in a scientific publication, it should be cited in that manuscript in the following manner: *Kazachstania intestinalis* (ATCC® MYA-4658™)

American Type Culture Collection  
PO Box 1549  
Manassas, VA 20108 USA  
[www.atcc.org](http://www.atcc.org)

800.638.6597 or 703.365.2700  
Fax: 703.365.2750  
Email: [Tech@atcc.org](mailto:Tech@atcc.org)

Or contact your local distributor

## Description

**Strain Designation:** EH085 [CBS 11839]

**Deposited Name:** *Kazachstania* sp.

**Product Description:** An ampoule containing viable cells (yeast cells, spores, or agar cubes with mycelia) suspended in cryoprotectant.

## Propagation

The information recommended in this section is to assist users in obtaining living culture(s) for their studies. The recommendation does not imply that the conditions or procedures provided below are optimum. Experienced researchers may initiate the growth of a culture in their own way.

ATCC® Medium 28: Emmons' modification of Sabouraud's agar

ATCC® Medium 200: YM agar or YM broth

ATCC® Medium 1245: YEPD

## Growth Conditions

**Temperature:** 24°C to 26°C

**Atmosphere:** Typical aerobic

## Recommended Procedure

**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.

1. To thaw a frozen ampoule, place in a **25°C to 30°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 at least 50 µL (or 2-3 agar cubes) of the content onto a plate or broth with medium recommended.
3. Incubate the inoculum/strain at the temperature and conditions recommended. 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

Type strain of the species; Insect associated yeast.

Additional, updated information on this product may be available on the ATCC® web site at [www.atcc.org](http://www.atcc.org).

## DNA Sequence

ITS DNA sequence of MYA-4658:

```
GTCAAACCTTAAAGAGTATTGTTTCGCCGCACAAAAATACACAGAAGAGACTAATGCACCAAACAGTAA
GTCACACCAGTACAGCGCCGAGTTGGTAAAACCTAGTACGACTAAAATACTAGCATGTGCTTGATAC
ACATACAGTTCCAGCGGTGTTTCGCGCTATGGCTAGCAATTTCAAGCTAACTCAGAGAAAGAGTGCA
CTCACAAACCAACACGAGTGTGGAGAAGGAAATGACGCTCAAACAGGCATGCCCTGGAATACCA
GAGGGCGCAATGTGCGTTCAAAGATTCGATGATTCACGGAATCTGCAATTCACATTACGTATCGCATT
TCGCTGCGTTCATCGATGCGGAGAACCAAGAGATCCGTTGTTGAAAGTTTTAAAAATTTTCAATCCGA
AGACTGCTTGTCTGAATAATAATAATGCATTGCAAAGTTGTTGTGTTGTGTCACCTCTGGGAAGCTTG
CGCCCCCAAAGAAGATGTGAAAAAATGATATGAGAAAAGTCTCCATCGTGTGTGAGAAAATACTCG
CGCTTAAATTGGCACTCCCAGACGGGCGGAACCCCTCTCCCTTTGTAATTAGCCGCGCAGTTAAGCGC
AGGCCAGGAGAAGAAACCAGGTGTCTGTT
```

D1D2 region of the 26S ribosomal RNA gene

```
ATATCAATAAGCGGAGGAAAAGAAACCAACCGGGATTGCCTCAGTAACGGCGAGTGAAGCGGCAAA
AGCTCAAATTTGAAATCTAGTACCCTCTGGGTGCTCGAGTTGTAATTTGTAGAGGGATACTTTGGGGCC
GTTCCCTGTCTATGTTCCCTTGAACAGGACGTCATAGAGGGTGATAACCCCGTGTGGCGAGGAGTGCG
GTTCTATGTAAGTGCTCTCGAAGAGTCGAGTTGTTGGGAATGCAGCTCTAAGTGGGTGGTAAATTC
ATCTAAAGCTAAATATTGGCGAGACCCGATAGCGAACAAGTACAGTGATGGAAGATGAAAAGAA
CTTTGAAAAGAGAGTGA AAAAGTACGTGAAATTTGTTGAAAGGGAAGGCATTTGATCAGACATGGTG
TTTTGCGCCCTCTGCTCCTGTGGGTGGGGACTCTCGCAGCTCACTGGGCCAGCATCAGTTTTGGCGGT
CGGATAAATCTGTAGGAATGTAGCTTGCCTTCGGGGAAGTATTATAGCCTGCGGGAATACGGCCAGCT
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GGGACTGAGGAATGCGACTTTGTCAAGGATGCTGGCATAAT

18S ribosomal RNA gene, partial sequence

AAAGATTAAGCCATGCATGTCTAAGTATAAGCAATTTATACAGTAAAAGTGGCTCATTAAAT  
CAGTTATCGTTTATTGATAGTTCCTTTACTACATGGTATAACTGTGGTAATCTAGAGCTAATACATGCT  
TAAAATCTCGACCTCTGGAAGAGATGTATTTATTAGATAAAAAATCAATGTCTTCGGACTCTTTGATGA  
TTCATAATAACTTTTCGAATCGCATGGCCTTTGTGCTGGCGATGGTTCATTCAAATTTTCGCCATCAACT  
TTCGATGGTAGGATAGTGGCCTACCATGGTTTCAACGGGTAACGGGGAATAAGGGTTCGATCCGGAG  
AGGGAGCCTGAGAAACGGCTACCACATCCAAGGAAGGCAGCAGCGCGCAAATACCCAATCCTAA  
TTCAGGGAGGTAGTGACAATAAATAACGATACAGGGCCCTTATGGGTCTTGTAAATGGAAATGAGTACA  
ATGTAATACCTTAACGAGGAACAATTGGAGGGCAAGTCTGGTGCCAGCAGCCCGGTAATCCAGC  
TCCAATAGCGTATATTAAGTTGTTGCAGTAAAAAGCTCGTAGTTGAATTTGGGCCTGGTTGGCCGG  
TCCGATTTTTTCGTACTGGAATCCCACCGGGCCTTTCCTCTGGCTAACCTGGGTCTTGTGGCCCTT  
GGCGAACCGAGGACTTTTACTTTGAAAAAATTAGAGTGTCAAAGCAGGCGTATTGCTCGAATATATTA  
GCATGGAAATAATGGAATAGGACGTTTTGGTCTATTTTGTGGTTTCTAGGACCATCGTAATGATTAATA  
GGGACGGTCGGGGGCATCAGTATTCAATTGTCAGAGGTGAAATCTTGGATTATTGAAGACTAACTA  
CTGCGAAAGCATTGGCAAGGACGTTTTTCAATTAACAAGAACGAAAGTTAGGGGATCGAAGATGATC  
AGATACCGTGTAGTCTTAACCATAAACTATGCGGACTAGGGATCGGGTGGTGTTTTTTAATGACCCA  
CTCGGCACCTACGAGAAATCAAAGTCTTTGGGTTCTGGGGGAGTATGGTCGCAAGGCTGAAACTTA  
AAGGAATTGACGGAAGGGCACCACCAGGAGTGGAGCCTCGCGCTTAATTTGACTCAACACGGGGAA  
ACTCACCAGGTCCAGACACAATAAGGATTGACAGATTGAGAGCTCTTCTTGTATTTGTGGTGGTGGT  
GCATGGCCGTTCTTATGGTGGAGTGTATTTGCTGCTTAATTGCGATAACGAACGAGACCTTAACCTA  
CTAAATAGTGGTGCTAGCATTGCTGGTTTTTCCACTTCTTAGAGGGACTATCGGTTTCAAGCCGATGGA  
AGTTTGAGGCAATAACAGGTCTGTGATGCCCTTAGACGTTCTGGCCGACGCGCGCTACTGACGG  
AGCCAGCGAGTCTAACCTGGCCGAGAGGTCTTGGTAATCTTGTGAACTCCGTCGTGCTGGGGATAG  
AGCATTGTAATTATTGCTCTTCAACGAGGAATCCTAGTAAGCGCAAGTCATCAGCTTGCCTTGATTAC  
GTCCCTGCCCTTTGTACACACCGCCGCTGCTAGTACCATTGAATGGCTTAGTGAGGCCTCAGGATCT  
GCTTAGAGAAGGGGGCAACTCCATCTCAGAGCGGAGAATCTGGTCAAACCTTGGTCATTAGAGGAAAC  
TAAAA

## Isolation

Gut of *Odontotaenius disjunctus* from rotten log, Bull Run Mt., Broad Run, Virginia, USA.

## References

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

## ATCC Warranty

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## Disclaimers

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## ***Kazachstania intestinalis*** **(ATCC<sup>®</sup> MYA-4658<sup>™</sup>)**

the misidentification or misrepresentation of such materials.


Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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