Fungi/Yeast Genomic DNA Isolation Kit

CAT. 27300, 27350

FOR THE RAPID PURIFICATION OF DNA FROM YEAST CELLS AND FUNGAL SPORES OR MYCELIUM

- Rapid spin column purification of genomic DNA from viable yeast cells, fungal spores or mycelium, and even Gram-positive bacteria
- Bead tubes (provided) allow for effective mechanical homogenization
- Purified DNA is of high quality and integrity and compatible with sensitive downstream applications such as PCR, qPCR, RFLP and more
- 96-Well format available for high throughput isolation

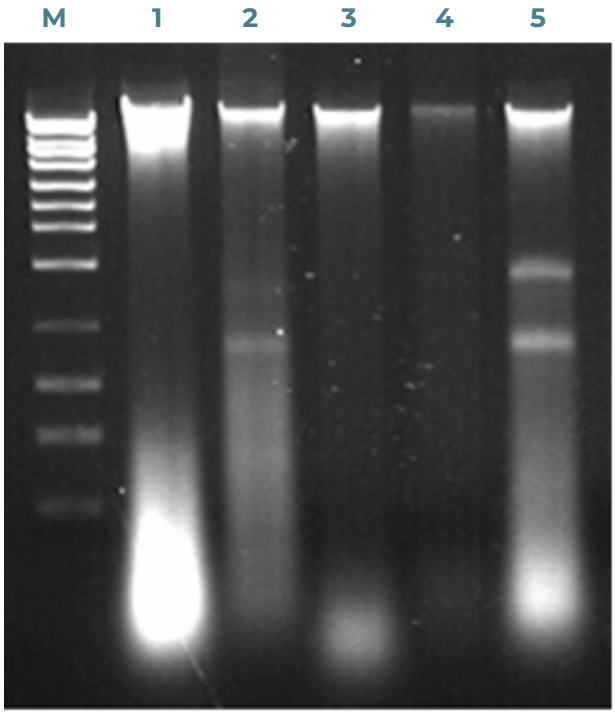
COLLECTION & PRESERVATION
EXTRACTION
APPLICATION

NORGEN BIOTEK

ISO 9001:2015 CERTIFIED QUALITY
ISO 13485:2016 CERTIFIED QUALITY
GMP COMPLIANT

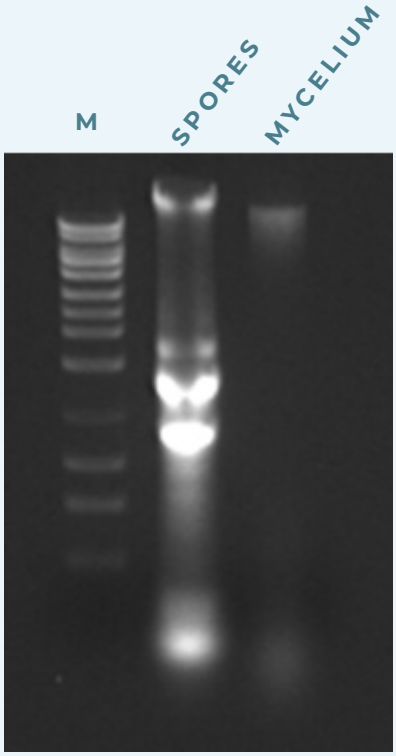
norgenbiotek.com

Advantages You Will Bring to Your Lab



EFFICENT PURIFICATION OF DNA FROM DIFFERENT FUNGAL SPECIES

Figure 1. DNA Isolation from Different Fungi Species and Yeast. To demonstrate the purification of DNA from different fungal species, 30 mg of fungi were collected from plate cultures of Pichia sp., Aspergillus niger, Cladosporium cladasporioides, Botrytis cinerea and Mucor racemosus, and the DNA was extracted using Norgen's Fungi/Yeast Genomic DNA Isolation Kit. The bead system efficiently lysed the fungal cell walls with the provided Lysis Solution, and total DNA was eluted in 100 µL. For analysis, 10 µL from each elution was loaded in 1% 1xTAE agarose gel. Lane 1: Yeast (Pichia sp.), Lane 2: Aspergillus Niger; Lane 3: Cladosporium cladosporioides; Lane 4: Botrytis cinerea; Lane 5: Mucor racemosus; Lane M: Norgen's HighRanger 1kb DNA Ladder. The optional RNase treatment was not performed during the process.



SUCCESSFULLY ISOLATE DNA FROM BOTH THE SPORES AND MYCELIUM.

Figure 2. DNA can be Isolated from Spores and Mycelium. Genomic DNA was extracted from the spores and mycelium of Botrytis cinera using Norgen's Fungi/Yeast Genomic DNA Isolation Kit. For the spores, 10^5 spores/mL were collected from a plate culture by adding 3 mL of 0.9% NaCl to the fungi culture plate and gently shaking to extract the spores. For mycelium, 20 mg of mycellium was collected with sterilized forceps. DNA was isolated using Norgen's Fungi/Yeast Genomic DNA Isolation Kit with the provided Bead Tubes. For analysis, 10 µL from each 100 µL elution was loaded on a 1% 1xTAE agarose gel. Lane M: Norgen's HighRanger 1kb DNA Ladder. Optional RNase treatment was not performed during the extraction. As it can be seen, DNA could be successfully isolated from both the spores and mycelium.

HIGH THROUGHPUT DNA ISOLATION WITHOUT COMPROMISING THE PURITY AND QUALITY

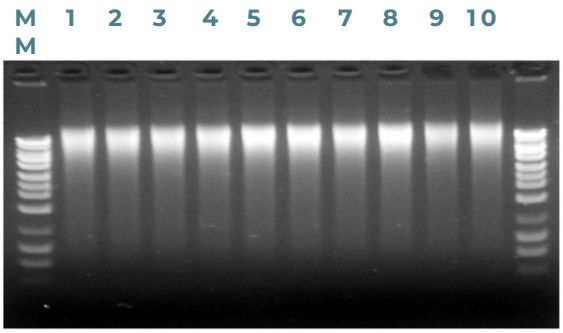


Figure 3. High Yields of DNA Isolated from Saccharomyces cerevisiae overnight culture. DNA was isolated from S. cerevisiae overnight culture using Norgen's Fungi/Yeast Genomic DNA Isolation 96-Well Kit. Following isolation of 10 samples, 10 µL from each 100 µL elution was loaded on 1% TAE agarose gel. Norgen's Fungi/Yeast Genomic DNA Isolation 96-Well Kit demonstrated a good and consistent DNA yield and integrity. Lane M: Norgen's HighRanger 1kb DNA Ladder.

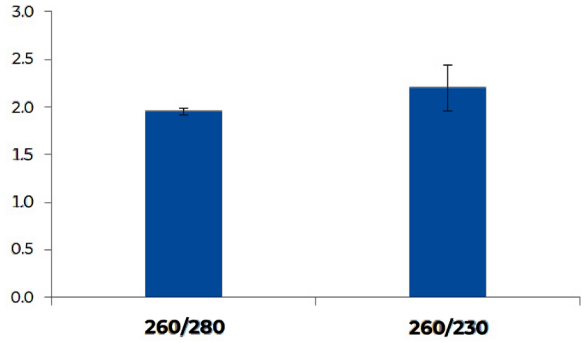


Figure 4. High quality of yeast DNA measured by NanoDrop. DNA isolated from Saccharomyces cerevisiae overnight culture using Norgen's Fungi/Yeast Genomic DNA Isolation 96-Well Kit showed a high quality of DNA based on A260/280 and A260/230. This indicates that the isolated DNA from all samples is of a high quality and can be used in sensitive downstream applications.

Kit Specifications

Description	Specifications
Column Binding Capacity	50 µg
Maximum Column Loading Volume	650 µL
Maximum Amount of Starting Material	
Fungi (wet weight)	50 mg
Yeast or Bacteria Culture	0.5mL - 1mL
Average Yield*	
Pichia sp. (yeast)	25 µg
Botrytis cinerea	32 µg
Fusarium sp.	42 µg
Aspergillis niger	26 µg
Mucor racemosus	15 µg
Cladosporium cladosporioides	12 µg
Penicillium sp.	40 µg
Rhizopus oryzae	7 µg
Alternaria tenuissima	30 µg
Time to Complete 10 purifications	30 minutes

* Yield will vary depending on the type of sample processed

Select Publications

Bitterman, Roni, et al. **"Exhaled Breath Condensate Surveillance for Aspergillus in Acute Leukemia—a Pilot Trial."** Open Forum Infectious Diseases, vol. 11, no. 10, Oct. 2024, p. ofae537. Silverchair, https://doi.org/10.1093/ofid/ofae537.

Duarte-Silva, Luciana, et al. **"Phenotypic and Molecular Characterization of Prototheca Wickerhamii from a Brazilian Case of Human Systemic Protothecosis."** PLOS Neglected Tropical Diseases, vol. 18, no. 11, Nov. 2024, p. e0012602. PLoS Journals, https://doi.org/10.1371/journal.pntd.0012602.

García-Salazar, Eduardo, et al. **"Utility of Cand PCR in the Diagnosis of Vulvovaginal Candidiasis in Pregnant Women."** Journal of Fungi, vol. 11, no. 1, 1, Jan. 2025, p. 5. www.mdpi.com, https://doi.org/10.3390/jof11010005.

Tran, Tra-My Thanh, et al. **"Isolation, Screening, and Identification of Thermophilic Lignocellulolytic Fungi from Agricultural Soil in Vietnam."** IOP Conference Series Earth and Environmental Science, vol. 1399, no. 1, 1 Sept. 2024, pp. 012003–012003, https://doi.org/10.1088/1755-1315/1399/1/012003.

Öncel, Sibel, and Hilal Özkılınç. **"Discovering the Dynamics of Peach Fruit Mycobiome throughout Fruit Development Season by High-Throughput Sequencing."** Scientific Reports, vol. 15, no. 1, Mar. 2025, p. 8969. www.nature.com, https://doi.org/10.1038/s41598-025-93090-6.

Preston, Michael et al. **"Expanded geographical distribution of Sarcosoma globosum (witches cauldron) in Canada."** Acta Mycologica, vol. 59, 2024, pp. 1-12. doi:10.5586/am/195530.

Zenelt, Weronika, and Krzysztof Krawczyk. **"Insect-Derived Bacteria as Biocontrol Tool and a Potent Suppressor of Plant Pathogenic Fungi in Tomato Cultivation."** Microbial Pathogenesis, vol. 198, Jan. 2025, p. 107158. ScienceDirect, https://doi.org/10.1016/j.micpath.2024.107158.

Ordering Information

Description	Preps	Cat. #
Fungi/Yeast Genomic DNA Isolation Kit	50 Prep	27300
Fungi/Yeast Genomic DNA Isolation Kit	2 x 96-Well plate	27350

Related Products

Description	Prep Size	Cat. #
Bacterial Genomic DNA Isolation Kit	50 Prep	17900
Plant RNA/DNA Purification Kit	50 Prep	24400
Norgen Next Generation Sequencing Services	Call 1-866-Norgenb or Visit norgenbiotek.com	

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