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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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ZYMO RESEARCH

The Beauty of Science is to Make Things Simple

INSTRUCTION MANUAL

Quick-DNA Fungal/Bacterial Microprep Kit

Catalog No. **D6007**

Highlights

- Simple, efficient isolation of DNA (up to 5 µg/prep) from all types of tough-to-lyse fungi (e.g., yeast) and bacteria in as little as 20 minutes.
- State-of-the-art, ultra-high density **BashingBeads™** are fracture resistant and chemically inert.
- Omits the use of organic denaturants as well as proteinases.

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Satisfaction of all Zymo Research products is guaranteed. If you should be dissatisfied with this product, please call 1-888-882-9682.

Product Contents

Quick-DNA™ Fungal/Bacterial Microprep Kit (Kit Size)	D6007 (50 preps.)	Storage Temperature
ZR BashingBead™ Lysis Tubes (0.1 & 0.5 mm)¹	50	Room Temp.
BashingBead™ Buffer	40 ml	Room Temp.
Genomic Lysis Buffer¹	100 ml	Room Temp.
DNA Pre-Wash Buffer²	15 ml	Room Temp.
g-DNA Wash Buffer	50 ml	Room Temp.
DNA Elution Buffer	10 ml	Room Temp.
Zymo-Spin™ III-F Filters	50	Room Temp.
Zymo-Spin™ IC Columns	50	Room Temp.
Collection Tubes	150	Room Temp.
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Note - Integrity of kit components is guaranteed for up to one year from date of purchase. Reagents are routinely tested on a lot-to-lot basis to ensure they provide maximal performance and reliability.

¹ For optimal performance, add beta-mercaptoethanol to 0.5%(v/v) i.e., 500 µl per 100 ml.

² A precipitate may have formed in the DNA Pre-Wash Buffer during shipping. To completely resuspend the buffer, incubate the bottle at 30-37 °C for 30 minutes and mix by inversion. DO NOT MICROWAVE.

Specifications

- **Format** – Bead Beating, Spin Column Purification
- **Sample Sources** – 10 – 20 mg (wet weight) fungi or bacteria. This equates to approximately 2×10^8 bacterial cells and 2×10^7 yeast cells. Spores, pollen, nematodes, as well as other microorganisms can also be sampled.
- **DNA Purity** – High quality DNA is eluted with **DNA Elution Buffer** making it perfect for PCR ($A_{260}/A_{280} > 1.8$).
- **DNA Size Limits** – Capable of recovering genomic DNA up to and above 40 kb. In most instances, mitochondrial DNA and viral DNA (if present) will also be recovered.
- **DNA Recovery** – Typically, up to 5 µg total DNA is eluted into 20 µl (10 µl minimum) **DNA Elution Buffer** per sample.
- **Equipment** – Microcentrifuge, Vortex, Cell Disrupter/Pulverizer (recommended).

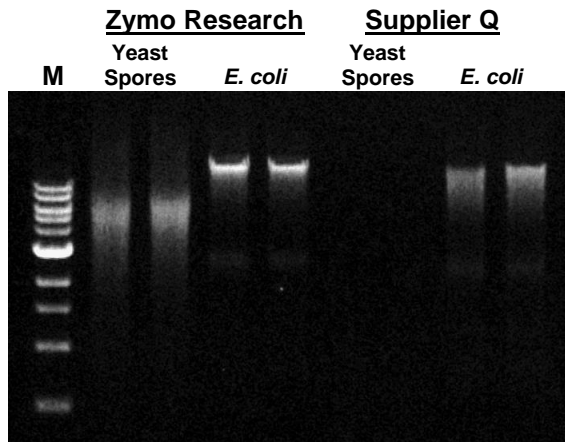
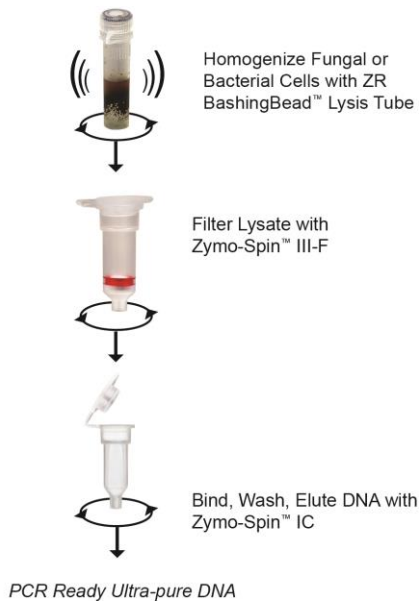
Note - ™ Trademarks of Zymo Research Corporation. This product is for research use only and should only be used by trained professionals. It is not intended for use in diagnostic procedures. Some reagents included with this kit are irritants. Wear protective gloves and eye protection. Follow the safety guidelines and rules enacted by your research institution or facility. Disruptor Genie™ is a trademark of Scientific Industries, Inc. and FastPrep® is a registered trademark of Qiogene, Inc.

ZYMO RESEARCH CORP.

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Product Description

The **Quick-DNA™ Fungal/Bacterial Microprep Kit** is designed for the simple and rapid isolation of DNA from tough-to-lyse fungi, including *A. fumigatus*, *C. albicans*, *N. crassa*, *S. cerevisiae*, *S. pombe*, as well as from mycelium and Gram (+) and (-) bacteria. The procedure is easy and can be completed in as little as 15 minutes: fungal and/or bacterial samples are added directly to a **ZR BashingBead™ Lysis Tube (0.1 & 0.5 mm)**, then rapidly and efficiently lysed by bead beating, without using organic denaturants or proteinases. The DNA is isolated and purified using our Zymo-Spin™ Technology and is ideal for downstream molecular-based applications including PCR, array, etc. A schematic of the **Quick-DNA™ Fungal/Bacterial Microprep Kit** procedure is shown below.



High yield DNA is successfully isolated from *Saccharomyces cerevisiae* (spores) and *E. coli* cells using the **Quick-DNA™ Fungal/Bacterial Kit**. Equivalent amounts of yeast or bacteria were processed using the **Quick-DNA™ Fungal/Bacterial Kit** or the kit from supplier Q. Equal volumes of eluted DNA were then analyzed in a 0.8% (w/v) agarose/ethidium bromide gel. The size marker "M" is a 1 kb ladder (Zymo Research).

For **Technical Assistance**, please contact those at **Zymo Research's Technical Department** at 1-888-882-9682 or E-mail to tech@zymoresearch.com.

Protocol

For optimal performance, add beta-mercaptoethanol (user supplied) to the **Genomic Lysis Buffer** to a final dilution of 0.5%(v/v) i.e., 500 µl per 100 ml.

¹This equates to approximately 2x10⁸ bacterial cells and 2x10⁷ yeast cells.

1. Add 10-20 mg (wet weight) bacterial cells or fungal cells¹ that have been resuspended in up to 200 µl of water or isotonic buffer (e.g., PBS) to a **ZR BashingBead™ Lysis Tube (0.1 & 0.5 mm)**. Add 750 µl **BashingBead™ Buffer** to the tube and cap tightly.
2. Secure in a bead beater fitted with a 2 ml tube holder assembly and process at maximum speed for ≥ 5 minutes.

Note: Processing time will vary based on sample input and bead beater. Times may be as little as 5 minutes when using high-speed cell disrupters (FastPrep® -24) or as long as 20 minutes when using lower speeds (e.g., Disruptor Genie®).

3. Centrifuge the ZR BashingBead™ Lysis Tube (0.1 & 0.5 mm) in a microcentrifuge at 10,000 x g for 1 minute.
4. Transfer up to 400 µl supernatant to the **Zymo-Spin™ III-F Filter** in a Collection Tube and centrifuge at 8,000 x g for 1 minute. Discard the Zymo-Spin™ III-F Filter .
5. Add 1,200 µl of **Genomic Lysis Buffer** to the filtrate in the Collection Tube from Step 4. Mix well.
6. Transfer 800 µl of the mixture from Step 5 to a **Zymo-Spin™ IC Column**² in a Collection Tube and centrifuge at 10,000 x g for 1 minute.
7. Discard the flow through from the Collection Tube and repeat Step 6.
8. Add 200 µl **DNA Pre-Wash Buffer** to the Zymo-Spin™ IC Column in a new Collection Tube and centrifuge at 10,000 x g for 1 minute.
9. Add 500 µl **g-DNA Wash Buffer** to the Zymo-Spin™ IC Column and centrifuge at 10,000 x g for 1 minute.
10. Transfer the Zymo-Spin™ IC Column to a clean 1.5 ml microcentrifuge tube and add 20 µl (10 µl minimum) **DNA Elution Buffer** directly to the column matrix and incubate for 1 minute. Centrifuge at 10,000 x g for 30 seconds to elute the DNA.

Ultra-pure DNA is now ready for use in your experiments.

²The Zymo-Spin™ IC Column has a maximum capacity of 800 µl.

Ordering Information

Product Description	Catalog No.	Kit Size
Quick-DNA™ Fungal/Bacterial Microprep Kit	D6007	50 preps.
Quick-DNA™ Fungal/Bacterial Miniprep Kit	D6005	50 preps.
Quick-DNA™ Fungal/Bacterial Midiprep Kit	D6105	25 preps.
Quick-DNA™ Fungal/Bacterial 96 Kit	D6006	2x96 preps.

For Individual Sale	Catalog No.	Amount
Genomic Lysis Buffer	D3004-1-100	100 ml
BashingBead™ Buffer	D6001-3-40	40 ml
DNA Pre-Wash Buffer	D3004-5-15	15 ml
g-DNA Wash Buffer	D3004-2-50	50 ml
DNA Elution Buffer	D3004-4-10	10 ml
ZR BashingBead™ Lysis Tubes (0.1 & 0.5 mm)	S6012-50	50
Zymo-Spin™ III-F Filters	C1057-50	50
Zymo-Spin™ IC Columns	C1004-50	50
Collection Tubes	C1001-50	50
	C1001-500	500
	C1001-1000	1,000

Lysis Instruments



Description	Cat. No.	Amount
Disruptor Genie™, 120V w/ 2 ml tube holder assembly.	S6001-2-120	1 unit
Disruptor Genie™, 230V w/ 2 ml tube holder assembly.	S6001-2-230	1 unit
TurboMix Attachment, 2 ml Permanently mounts to most existing Vortex Genie™ mixers converting them to a Disruptor Genie™.	S6004	1 unit

The **Disruptor Genie™** with 2 ml tube holder from Scientific Industries, Inc. (Cat. No. S6001-2-120 from Zymo Research Corp.)

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