

FiberPrep[®]

DNA Extraction Kit

Handling and storage of the FiberPrep[®] kit, 10 reactions

IFU-M&S-12-a
REF: EXT-001-10

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For general laboratory use.



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1. INTENDED USE

The **FiberPrep® DNA Extraction kit (EXT-001-10)** allows to extract high quality DNA molecules from fresh blood or cultured cells. Extracted DNA fibers will have the particularity to be of very high molecular weight (average size: 400 kb*).

This **FiberPrep® DNA Extraction Kit (EXT-001-10)** has been designed to be used specifically for Molecular Combing, using **Engraved Combicoverslips (COV-002)** and a **FiberComb® (Molecular Combing System) (MCS-001)**.

**Average size of fibers may vary depending on the quality of cells, and potential treatments carried-out on the samples.*

2. STORAGE OF THE REAGENTS WITHIN THE KIT

The complete kit is divided into two parts according to the conditions of storage:

- The Cooler part (2-8°C) of the **FiberPrep® DNA Extraction kit (EXT-001-10)** contains:

Buffers	Volume in the kit	Storage temperature
Buffer 1 *	0,5 mL	+ 2°C to +8°C
Buffer 2 **	1 mL	+ 2°C to +8°C
Buffer 3	2,5 mL	+ 2°C to +8°C
Buffer 4	5 mL	+ 2°C to +8°C
Buffer 5	28 mL	+ 2°C to +8°C
Buffer 7	25 mL	+ 2°C to +8°C
Component 3	0,3 mL	+ 2°C to +8°C

* Buffer 1 is only used for extraction of DNA **from adherent cells** . If you extract DNA **from blood**, please replace Buffer 1 by standard cell culture grade DPBS (Dulbecco's Phosphate-Buffered Saline or Calcium-Magnesium free PBS).

** Buffer 2 aliquot should not be used (heated and cooled down) more than 10 times.

The Freezer part (-20°C) of **FiberPrep® DNA Extraction kit (EXT-001-10)** contains :

Buffers	Volume in the kit	Storage temperature
Component 7	17,5 µL	-25°C to -10°C

The **FiberPrep® DNA Extraction kit (EXT-001-10)** contains reagents to perform extractions on 5 samples, preparing 2 plugs per sample. **IMPORTANT:** The kit must be used **within 1 month** after reception date.

3. EXTRA MATERIALS AND INSTRUMENTS REQUIRED

- FiberComb® Molecular Combing System (Genomic Vision)
- Silanized Combicoverslips (Genomic Vision)
- Disposable DNA reservoirs (Genomic Vision)
- Gel plug mold (Bio-Rad, Hercules, CA, USA, ref: 1703713)
- Water bath (42, 50, 68°C)
- Cell culture CO₂ incubator
- Counting chamber
- Test tube (15 mL and 50 mL)
- Round-bottom centrifuge tube (2 mL)
- Cell culture flask
- Centrifuge for cell samples
- Dulbecco's Phosphate Buffer Saline (DPBS) of cell culture grade (for extractions from blood samples)
- YOYO-1 (Invitrogen)
- Mounting medium: Vectashield (Vector laboratories, USA), Slowfade (Invitrogen), Prolong (Invitrogen)

4. ORDERING INFORMATION & RELATED GENOMIC VISION PRODUCTS

Product	Contents	Reference
FiberPrep® DNA extraction kit	10 extractions	EXT-001-10
FiberComb® Molecular Combing System	Combing device	MCS-001
Coverslip clip holder	Holder with 2 positions	CLI-001
Disposable reservoirs	Pack of 10 units	RES-001
Reservoir supports	Provided by 2 units	SUP-001
Bench reservoir holder	Holder with 10 positions	POR-001
Engraved Combicoverslips	Box of 50 units	COV-002

To place an order, please contact us at sales@genomicvision.com

or visit our website <http://www.genomicvision.com/gv-store/>



Our experts are available to answer your questions

<http://www.genomicvision.com>

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Intellectual Property Rights

This product or the use of this product is subject to proprietary rights (EP2007/059299, IB2009/007197). The Molecular Combing technology and products are covered by patents (FR2716206, FR 2716263, FR 2737574, FR 2755149) owned by Genomic Vision S.A.

Quality Control

The FiberPrep[®] DNA Extraction Kits undergo strict Quality Controls performed in Genomic Vision's laboratories. Should you nevertheless experience problems with the product, please contact the technical support team.

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