

9.0 ULTRAPrep®

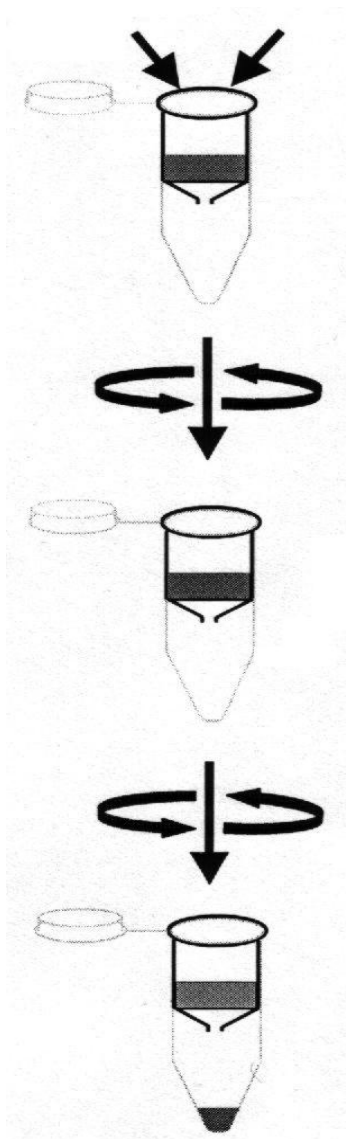


General Information

**Quick – High Yield – Superior Quality -
Economic**

The ULTRAPrep® Principle:

**Pure DNA or Total RNA –
save, easy and cheap**



Lysis of starting material.

**Transfer of the lysate in the
spin column and binding of
DNA/Total RNA to the spe-
cial unique designed
ULTRAPrep spin column
filter or membrane.**

**Washing step: impurities are
efficiently removed.**

**Elution of the DNA/Total
RNA using elution buffer or
deionized water.**

**Pure DNA or Total RNA of
highest quality**

All ULTRAPrep kits are absolute complete kits ready for use with buffers, reagents, handbooks, receiver tubes, micro tubes, and special designed high quality spin columns. All plastic components are certified DNase, RNase and free of PCR-inhibitors.

9.1 ULTRAPrep®



MiniPREP Plasmid DNA

Reproducible yields of high-purity plasmid DNA ready to use in minutes

Advantages:

- Mini spin column procedure (silica membrane)
- Plasmids from up to 6 ml culture
- High copy plasmids
- Large plasmids (>50 kb)
- Procedure within 15 min
- High quality
- High yield (up to 20 ug high copy plasmid DNA)
- Elution volume : 30-100 ul
- Highly concentrated plasmid preps (100-200 ng/ul)
- Sequencing, hybridization, restriction analysis, etc.

Improved protocol for rapid plasmid DNA isolation

The ULTRAPrep Plasmid Mini is a rapid kit for daily analysis of plasmid-containing clones. Within only 15 minutes, this kit allows for the processing of up to 6 ml culture to obtain large amounts (up to 20 µg) of plasmid DNA at high concentration (100-200 ng/µl), which is suitable for sequencing and other reactions, including screening of bacterial clones and restriction analysis. Everything for a very attractive price.

Kit components:

ULTRAPrep Plasmid DNA	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer 1.0 RB (M1)	12,5 ml	5 x 12,5 ml
Buffer 2.0 LB (M2)	12,5 ml	5 x 12,5 ml
Buffer 3.0 NB (M3)	17,5 ml	5 x 17,5 ml
Buffer 4.0 WB	7 ml	5 x 7 ml
Buffer 5.0 EB (M4)	10 ml	5 x 10 ml
RNase A, DNase-free	0,5 ml	5 x 0,5 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-001-00-0	ULTRAPrep Plasmid DNA Kit	yes	4	complete kit	carton	1 carton
6-001-01-0	ULTRAPrep Plasmid DNA Kit	yes	50	complete kit	carton	1 carton
6-001-02-0	ULTRAPrep Plasmid DNA Kit	yes	250	complete kit	carton	1 carton

9.2 ULTRAPrep®



MiniPREP Agarose Gel Extraction

Extraction of DNA fragments from standard or low-melt agarose gel

A kit for the isolation of small and large DNA fragments and plasmid DNA from gels

Advantages:

- Mini spin procedure (silica membrane)
- >100bp-23 kbp fragments
- Supercoil plasmid DNA
- Only 15 min. to purified DNA
- TAE and TBE agarose gels
- Low melting and regular gels
- Applications: restriction, ligation, transformation and others
- High quality
- High yield
- Elution volume: 30-100 µl

This ULTRAPrep kit is the new kit for the high efficiency and economic isolation of DNA fragments and plasmid DNA from any agarose gel. The kit convinced by its simplicity in handling, quick procedure and high quality of extracted DNA.

The rapid and efficient procedure requires no expensive equipment and completely avoids the usage of toxic and hazardous reagents such as phenol or chloroform. The procedure is based on optimized buffers and the use of our specially designed ULTRAPrep® spin columns. The advanced buffer system is optimized for efficient recovery of DNA and removal of contaminants. DNA is adsorbed to the uniquely-designed ULTRAPrep® membrane and all impurities are efficiently removed by centrifugation. The pure DNA is directly eluted in a special buffer.

Kit components:

ULTRAPrep Gel Extraction	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 2 ml	50	250
Buffer 1.4	15 ml	5 x 15 ml
Buffer 2.2	7 ml	5 x 7 ml
Buffer 3.2	2,5	3 x 2,5 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
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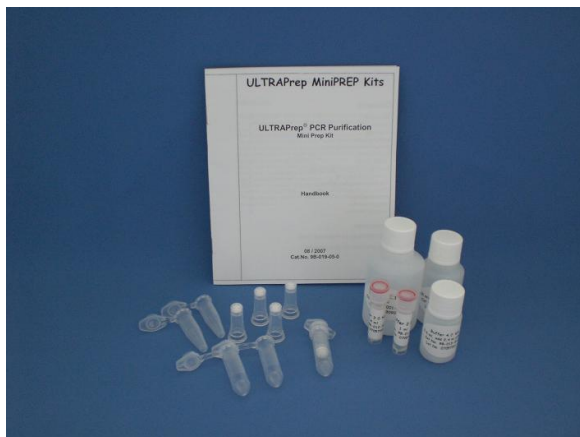
Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-005-00-0	ULTRAPrep Gel Extraction Kit	yes	4	complete kit	carton	1 carton
6-005-01-0	ULTRAPrep Gel Extraction Kit	yes	50	complete kit	carton	1 carton
6-005-02-0	ULTRAPrep Gel Extraction Kit	yes	250	complete kit	carton	1 carton

9.3 ULTRAPrep®



MiniPREP PCR-Purification

Kit for direct purification of double or single-stranded PCR products



High purity DNA from ULTRAPrep spins is directly eluted in a special buffer – there is no need to precipitate, concentrate or desalt !

The ULTRAPrep® PCR Purification miniprep kits provide an easy, safe and reliable method for the direct purification of double- or single-stranded PCR products.

The rapid and efficient procedure requires no expensive equipment and completely avoids the usage of toxic and hazardous reagents such as phenol or chloroform. The procedure is based on optimized buffers and the use of our specially designed ULTRAPrep® spin columns. The advanced buffer system is optimized for efficient recovery of DNA and removal of contaminants. DNA is adsorbed to the uniquely-designed ULTRAPrep® membrane and all impurities are efficiently removed by centrifugation. The pure DNA is directly eluted in a special buffer.

The components of this kit are sufficient for processing samples of up to 100 µl.

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-006-00-0	ULTRAPrep PCR-Purification Kit	yes	4	complete kit	carton	1 carton
6-007-01-0	ULTRAPrep PCR-Purification Kit	yes	50	complete kit	carton	1 carton
6-005-02-0	ULTRAPrep PCR-Purification Kit	yes	250	complete kit	carton	1 carton

9.4 ULTRAPrep®



MiniPREP Genomic DNA Whole Blood & Cell Culture

Advantages:

- Purification from up to 200 ul whole blood
- Quick: within 30 minutes
- Few purification steps

Yields:

Examples	OD 260/280	Yield
Blood, human 100 ul	1,75	2,70 ug
Cell culture, monkey kidney 10 ⁷ cells	1,91	19,5 ug

Blood and cell culture DNA in 20 to 30 minutes

DNA from blood and cell cultures can be purified in little time and just a few steps with this kit. Blood cells from whole blood are lysed in a chaotropic buffer with proteinase K (10 minutes, 70° C). The lysate is then mixed with binding buffer and loaded on mini spin columns. The complete purification procedure does not take longer than 30 minutes. Cultivated cells are directly lysed with a buffer containing guanidine hydrochloride. The DNA isolation process takes only 20 minutes.

Kit components:

ULTRAPrep DNA Blood & Cell	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer RB	10 ml	5 x 10 ml
Buffer PB	12,5 ml	5 x 12,5 ml
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Proteinase K (10 mg/ml)	1 ml	5 x 1 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
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Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-002-00-0	ULTRAPrep Genomic DNA Blood & Cell	yes	4	complete kit	carton	1 carton
6-002-01-0	ULTRAPrep Genomic DNA Blood & Cell	yes	50	complete kit	carton	1 carton
6-002-02-0	ULTRAPrep Genomic DNA Blood & Cell	yes	250	complete kit	carton	1 carton

9.5 ULTRAPrep®



MiniPREP Genomic DNA Tissue For human and animal tissue, including mouse tail

Advantages:

- **Quick preparation: lysis in 1-2 hours, DNA purification in 10-20 min.**
- **Simple handling, low hands-on**
- **Few purification steps**

Human and animal tissues including mouse tail and avertebrates - simple handling, quick protocols

The kit contains all buffers and reagents for the preparation of lysates and DNA isolation from any tissue. After a short on-column RNase treatment highly concentrated DNA preparations can be obtained, which are ready for any downstream application.

Yields (100 mg tissue):

Examples	OD 260/280	Yield
Mouse tail 1 cm	1,73	8,20 ug
Rat brain	1,89	60,0 ug
Rat heart	1,82	8,90 ug
Rat liver	1,85	30,0 ug
Rat kidney	1,71	12,9 ug
Rat splenic	1,80	27,6 ug

Kit components:

ULTRAPrep DNA Tissue	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer RB	10 ml	5 x 10 ml
Buffer PB	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Proteinase K (10 mg/ml)	1 ml	5 x 1 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-003-00-0	ULTRAPrep Genomic DNA Tissue	yes	4	complete kit	carton	1 carton
6-003-01-0	ULTRAPrep Genomic DNA Tissue	yes	50	complete kit	carton	1 carton
6-003-02-0	ULTRAPrep Genomic DNA Tissue	yes	250	complete kit	carton	1 carton

9.6 ULTRAPrep®



MiniPREP Genomic DNA BAC

Kit for extraction of DNA from gram-positive and gram-negative bacterias

Advantages:

- Quick processing (approx. 30min)
- High Yield: up to 80 ug DNA
- Gram-negative / Gram-positive bacteria
- Protocols for difficult to lyse bacteria

Total nucleic acid and DNA purification from gram-positive and gram-negative bacteria

With this kit it is possible to isolate total nucleic acids or, after RNase-treatment, DNA within a short time (30 min). The cells are treated with lysozyme (15 min) and are afterwards lysed in a highly chaotropic milieu. This prevents the degradation of the nucleic acids by cellular nucleases. The purification protocol itself only requires a few steps. The nucleic acids respectively the DNA are eluted high molecular (>50 kb) and high concentrated in a small volume.

Yields (1-1,5 ml culture):

Examples	OD 260/280	Yield
Halobacterium	1,83	3,7 ug
Pseudomonas	1,92	16 ug
Synechococcus	1,80	4,5 ug
E. Coli (5 ml)	2,0	79,5 ug
Bacillus	1,8	5,1 ug

Kit components:

ULTRAPrep DNA BAC	50 reactions	250 reactions
Mini Spin columns	50	250
Collection tubes (1,5 ml)	50	250
Buffer RS	7 ml	5x 7 ml
Buffer RB	10 ml	5 x 10 ml
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Manual	1	1

Specification	According to
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Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-007-00-0	ULTRAPrep Genomic DNA BAC	yes	4	complete kit	carton	1 carton
6-007-01-0	ULTRAPrep Genomic DNA BAC	yes	50	complete kit	carton	1 carton
6-007-02-0	ULTRAPrep Genomic DNA BAC	yes	250	complete kit	carton	1 carton

9.7 ULTRAPrep®



MiniPREP Genomic DNA Food

For food of plants and animal origin

Advantages:

- Food control
- Simple and quick procedure
- Highly efficient

DNA extraction and purification from food of plant and animal origin – Simple and efficient

Yields:

Examples	OD 260/280	Yield
Liver sausage 200 mg	1,73	10,2 ug
Salami 200 mg	1,72	1,50 ug
Wheat flour 20 mg	1,61	1,50 ug
Spelt flour 50 mg	1,66	1,90 ug
Oat meal 50 mg	1,71	2,50 ug
Black Tea 20 mg	1,76	9,80 ug

This kit enables the extraction and purification of DNA from food and feed for molecular quality control, including verification of food composition and origin of sausage or vegetable ingredients – the DNA isolation procedure is simple, quick and efficient.

Kit components:

ULTRAPrep DNA Food	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer RB	10 ml	5 x 10 ml
Buffer PB	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Proteinase K (10 mg/ml)	1 ml	5 x 1 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-008-00-0	ULTRAPrep Genomic DNA Food	yes	4	complete kit	carton	1 carton
6-008-01-0	ULTRAPrep Genomic DNA Food	yes	50	complete kit	carton	1 carton
6-008-02-0	ULTRAPrep Genomic DNA Food	yes	250	complete kit	carton	1 carton

9.8 ULTRAPrep®



MiniPREP Genomic DNA Funghi DNA-Isolation from Yeasts and Funghi

Advantages:

- Only 40 minutes (fungi) to 70 min (yeasts) for nucleic acid preparation
- Superior DNA quality
- High molecular size DNA (>50 kb).

Total nucleic acid and DNA isolation from yeasts and fungi – quick and efficient

The kit is designed to isolate total nucleic acids respectively DNA from yeasts and fungi in reduced time. The material is either treated enzymatically (lyticase, yeasts) or ground under liquid nitrogen. Lysed is obtained with a highly chaotropic buffer (guanidine hydro-chloride). After adding the binding buffer the nucleic acids (RNA, DNA) are purified over the mini-spin columns in 10-15 minutes only. A short RNase-treatment in the column provides pure DNA.

Yields:

Examples	OD 260/280	Yield
Saccharomyces carlsbergensis (1 ml)	1,91	6,8 ug
Pichia pastoris (1 ml)	2,0	7,2 ug
Hebeloma crustalini-forme (250 mg)	2,0	6,3 ug
Mucor rouxi (250 mg)	1,99	5,7 ug
Mushroom (500 mg)	2,0	6,0 ug

Kit components:

ULTRAPrep DNA Fungl	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer RB	10 ml	5 x 10 ml
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-011-00-0	ULTRAPrep Genomic DNA Funghi	yes	4	complete kit	carton	1 carton
6-011-01-0	ULTRAPrep Genomic DNA Funghi	yes	50	complete kit	carton	1 carton
6-011-02-0	ULTRAPrep Genomic DNA Funghi	yes	250	complete kit	carton	1 carton

9.9 ULTRAPrep®



MiniPREP Genomic DNA Plant

Plant, Soil, Sediment and Water

Advantages:

- Rapid isolation: within only 50 minutes from extraction to pure DNA
- Simple handling: leaves, stem, roots, freeze-dried samples
- High DNA quality
- High molecular size DNA (>50 kb)
- Detailed protocols of sample preparation and DNA isolation

A kit for the isolation of total nucleic acids and DNA from Plant, Soil, Sediment and Water

With this kit total nucleic acids and DNA can be isolated within short time from monocots and dicots. The extraction of nucleic acids and the mini spin column purification procedure is simple in handling and very efficient. The isolated DNA is of high quality and can be used for downstream applications including restriction, ligation, PCR and hybridization. Further, the kit is designed for the extraction of DNA from soils, sediments and water samples. A specially developed buffer is available for removal of contaminating humic and fulvic acids.

Yields (100 mg material):

Examples	OD 260/280	Yield
Lunaria annua	1,98	7,1 ug
Galeobdolon argentatum	1,66	5,8 ug
Pisum sativum	2,0	12 ug
Triticum aestivum	1,82	12,5 ug
Lepidium sativum	1,96	8,4 ug
Solanum lycopersicum	1,89	11 ug

Kit components:

ULTRAPrep DNA Plant	50 reactions	250 reactions
Mini-Spin columns	50	250
Collection tubes 1,5 ml	50	250
Buffer RB	10 ml	5 x 10 ml
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-009-00-0	ULTRAPrep Genomic DNA Plant	yes	4	complete kit	carton	1 carton
6-009-01-0	ULTRAPrep Genomic DNA Plant	yes	50	complete kit	carton	1 carton
6-009-02-0	ULTRAPrep Genomic DNA Plant	yes	250	complete kit	carton	1 carton

9.10 ULTRAPrep®



MiniPREP Total RNA BAC

Gram-Positive and Gram-negative bacterias

Advantages:

- Quick (approx. 30 minutes)
- High yield: up to 80 ug total RNA
- Preps from up to 5×10^9 cells
- Gram-negative / Gram-positive bacteria
- Special lysing agent for hard-to-lyse Gram-positive and Gram-negative bacteria optional
- Exceptional RNA quality, for all downstream applications, including RT-PCR, qRT-PCR and Northern Blotting

Total RNA Isolation from Gram-negative and Gram-positive bacteria

The kit contains all buffers and reagents required for isolating total RNA from Gram-positive and Gram-negative bacteria, including high activity RNase free DNase I. It presents remarkable features of timesaving, ease, speed and low cost for purification of stable total RNA from Gram positive & Gram negative bacteria. Easy procedure: after harvest, cells are submitted to a short muralytic treatment (e.g. E. coli 15 min.), treated with lysozyme solution or the BAC-lysis reagent (for Gram-positive and Gram-negative bacteria), and then lysed in a highly-cahotropic buffer (Guanidin hydro-chloride). This buffer inactivates RNases immediately and completely. Subsequently, the RNA is purified in only a few steps on a SAM-filter-column, in which DNA digestion by DNase I occurs. The RNA is finally eluted at high concentration with the RNase free elution buffer.

Kit components:

ULTRAPrep Total RNA BAC	50 reactions	250 reactions
Mini-Spin columns SAM	50	250
Collection tubes 1,5 ml	50	250
Buffer RS	5 ml	5 x 5 ml
Buffer CH	12,5	5 x 12,5 ml
Buffer AB	12,5 ml	5 x 12,5 ml
Buffer WB	20 ml	5 x 20 ml
Buffer DB2	25,5 ml	5 x 25,5 ml
Ethanol, 70 % (v/v)	20 ml	5 x 20 ml
Buffer EB	7,5 ml	5 x 7,5 ml
DNase I, RNase-free (10 U/ul), -20°C	200 ul	5 x 200 ul
Lysozyme (100 mg/ml), -20°C	300 ul	5 x 300 ul
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-020-00-0	ULTRAPrep Total RNA BAC	yes	4	complete kit	carton	1 carton
6-020-01-0	ULTRAPrep Total RNA BAC	yes	50	complete kit	carton	1 carton
6-020-02-0	ULTRAPrep Total RNA BAC	yes	250	complete kit	carton	1 carton

9.11 ULTRAPrep®



MiniPREP Total RNA Cell Culture

For cultured human and animal cells

Advantages:

- For up to 2×10^6 cells
- Quick: within 40 minutes
- Few purification steps
- RNase-free DNase I included
- Protocol without mercapto-ethanol

Total RNA from cultured human and animal cells within 40 minutes

This kit is directed to the easy and quick isolation of total RNA from cultured human and animal cells. Harvested cells and also cells grown in monolayer in microtitration plates are simply lysed by the addition of a chaotropic buffer, which instantaneously inactivates RNases and thereby stabilizes RNA. In the next step the lysate is mixed with a binding buffer and passed through a filter matrix. After DNase I treatment on the column the RNA is purified by the bind-wash-elute procedure. The total protocol takes no more than 40 minutes.

Kit contents:

ULTRAPrep Total RNA Cell Culture	50 reactions	250 reactions
Mini-Spin columns SAM	50	250
Collection tubes 1,5 ml	50	250
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	10,0 ml	5 x 10,0 ml
Buffer WB	20,0 ml	5 x 20,0 ml
Buffer DB2	50,0 ml	5 x 50,0 ml
Ethanol, 70 % (v/v)	20,0 ml	5 x 20,0 ml
Buffer EB	10,0 ml	5 x 10,0 ml
DNase I, RNase-free (10 U/ul), -20°C	0,2 ml	5 x 0,2 ml
Manual	1	1

Specification	According to
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RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-021-00-0	ULTRAPrep Total RNA Cell Culture	yes	4	complete kit	carton	1 carton
6-021-01-0	ULTRAPrep Total RNA Cell Culture	yes	50	complete kit	carton	1 carton
6-021-02-0	ULTRAPrep Total RNA Cell Culture	yes	250	complete kit	carton	1 carton

9.12 ULTRAPrep®



MiniPREP Total RNA Funghi For Yeasts and Funghi

Advantages:

- Two protocols: enzymatic cell wall hydrolysis (lyticase) and mechanical disintegration (grinding)
- RNA preps within only 60-85 min.
- Stable RNA preps
- RNase-free DNase included

Total RNA isolation from yeasts and fungi – rapid and efficient.

Extracting high purity RNA from yeasts and fungi by simple procedure. Two protocols are offered for efficient lysis of yeast cells: one protocol uses enzymatic hydrolysis (lyticase) of cell walls, the other mechanical treatment by grinding under liquid nitrogen of cells resistant to lyticase. Lysis is achieved with a high-chaotropic buffer (guanidinium hydrochloride), without use of mercaptoethanol. After addition of binding buffer and binding of the nucleic acid to the filter-matrix, the DNA is degraded on the column by supplied of highly active, RNase free DNase I. The isolation of the total RNA takes only 10-15 more minutes.

Kit components:

ULTRAPrep Total RNA Funghi	50 reactions	250 reactions
Mini-Spin columns SAM	50	250
Collection tubes 1,5 ml	50	250
Buffer CH	12,5 ml	5 x 12,5 ml
Buffer AB	10 ml	5 x 10 ml
Buffer WB	20 ml	5 x 20 ml
Buffer DB2	50 ml	5 x 25,5 ml
Ethanol, 70 % (v/v)	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
DNase I, RNase-free (10 U/ul), -20°C	0,25 ml	5 x 0,25 ml
Manual	1	1

Specification	According to
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Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-022-00-0	ULTRAPrep Total RNA Funghi	yes	4	complete kit	carton	1 carton
6-022-01-0	ULTRAPrep Total RNA Funghi	yes	50	complete kit	carton	1 carton
6-022-02-0	ULTRAPrep Total RNA Funghi	yes	250	complete kit	carton	1 carton

9.13 ULTRAPrep®



MiniPREP Total RNA Plant

For monocots and dicots

Advantages:

- Rapid purification: only 50 minutes
- Simple handling of leaves, stems, roots, dried material
- CTAB/PVP extraction and removal of PCR inhibitors
- High RNA quality
- Protocols for monocots and dicots

Fast RNA preparation from plants– Removal of PCR-inhibitors

The protocol is developed for the rapid and easy extraction and purification of pure total RNA from fresh, frozen and dried plant material, including leaves, stems and roots. The extraction protocol includes a hot CTAB/PVP treatment step, followed by a simple bind-on-column DNA degradation-wash-elute RNA purification procedure. Together, the purification protocol results in high amounts of pure RNA, which is free of PCR inhibitors like polyphenolic compounds.

Kit components:

ULTRAPrep Total RNA Plant	50 reactions	250 reactions
Mini-Spin columns SAM	50	250
Collection tubes 1,5 ml	50	250
Buffer AB	10 ml	5 x 10 ml
Buffer EX	10 ml	5 x 10 ml
Buffer CS	10 ml	5 x 10 ml
Buffer DB 2	50 ml	5 x 50 ml
Buffer WB	20 ml	5 x 20 ml
Ethanol, 70 % (v/v)	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
DNase I, RNase-free (10 U/ul), -20°C	0,2 ml	5 x 0,2 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-023-00-0	ULTRAPrep Total RNA Plant	yes	4	complete kit	carton	1 carton
6-023-01-0	ULTRAPrep Total RNA Plant	yes	50	complete kit	carton	1 carton
6-023-02-0	ULTRAPrep Total RNA Plant	yes	250	complete kit	carton	1 carton

9.14 ULTRAPrep[®]



MiniPREP Total RNA Tissue

For human and animal tissue

Advantages:

- Quick preparation: 50 minutes
- Simple handling
- Few purification steps
- Stable RNA preps
- RNase-free DNase 1 included

Total RNA from human and animal tissue - simple handling, quick protocols

With this kit sliced tissue samples are homogenized in chaotropic lysis buffer, e.g. by a high speed blender. This efficiently avoids RNA degradation in the lysate. Solid residues are removed by centrifugation, and binding buffer is added to the supernatant containing the nucleic acids. High purity total RNA is eluted, using the fast and simple Bind-Wash-Elute procedure, that includes on-column DNA digestion. The RNA elutes as a concentrated solution, directly usable for downstream applications.

Kit components:

ULTRAPrep Total RNA Tissue	50 reactions	250 reactions
Mini-Spin columns SAM	50	250
Collection tubes 1,5 ml	50	250
Buffer DB2	50 ml	5 x 50 ml
Buffer CS	12,5 ml	5 x 12,5 ml
Buffer EX	12,5 ml	5 x 12,5 ml
Buffer BB	20 ml	5 x 20 ml
Buffer WB	20 ml	5 x 20 ml
Ethanol, 70 % (v/v)	20 ml	5 x 20 ml
Buffer EB	10 ml	5 x 10 ml
DNase I, RNase-free (10 U/ul), -20°C	0,2 ml	5 x 0,2 ml
Manual	1	1

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
6-024-00-0	ULTRAPrep Total RNA Tissue	yes	4	complete kit	carton	1 carton
6-024-01-0	ULTRAPrep Total RNA Tissue	yes	50	complete kit	carton	1 carton
6-024-02-0	ULTRAPrep Total RNA Tissue	yes	250	complete kit	carton	1 carton

9.15 ULTRAPrep®



Enzymes for DNA and Total RNA ULTRAPrep® Kits

Advantages:

High activity

Superior quality

Application-optimized

Enzyme Application:

Lysozyme: Bacterial cell wall degradation.

BugLysis: Cocktail of lytic enzymes for cell wall degradation of Gram-negative and Gram-positive bacteria, including Staphylococcus, Streptococcus and Mycobacterium. Also for use with other Lysis products.

Lyticase: Yeast cell wall degradation.

Enzyme Information:

Product				
Lysozyme	>100.000 U/mg	100 mg/ml	250 rxn	1.25 ml solution
Lyticase	1.000 U/ml		50 rxn	5.00 ml solution
BugLysis			100 rxn	1.00 ml solution

Note : ULTRAPrep enzymes should be stored by -20°C . For transportation is no freezing or special packaging necessary !!!

Specification	According to
CE-marking certificate	EU-Directive 98/79/EG, competent authority code DE/CA90
Sterility certificate	EN 552/ISO 11137 and DIN EN 556
RoHS Compliance certificate	EU Directive 2002/95/EC
Environmental Management certificate	ISO Standard 14000 and ISO Standard 14001
USP-Plastic Test, Class VI, certificate	ISO Standard 10993
GMP/GLP certificate	WHO Technical Report Series 908, 37. Report, Geneva 2003

Cat.no.	Description	Sterile	Reactions	Pack type	Pack	Sales unit
9M-018-00-0	ULTRAPrep Lysozyme 250 rxn	yes	250	Ready for use	carton	1 carton
9M-019-00-0	RNase A for RNA removal	yes	50	Ready for use	carton	1 carton
9M-020-00-0	ULTRAPrep Lyticase 50 rxn	yes	50	Ready for use	carton	1 carton
9M-021-00-0	BugLysis lytic enzymes	yes	100	Ready for use	carton	1 carton