



ChIP DNA Prep Adem-kit

AutoMag Solution

Version 1.0

REF 06241

Instruction manual for automation protocol

Prefilled reagents for the AutoMag Instrument, the kit is used for optimal DNA Purification from CHIP samples

Kit for 48 reactions

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Introduction

1. Description

The ChIP DNA Prep Adem-Kit is specifically optimized for extracting DNA from Chromatin Immunoprecipitation.

The use of magnetic beads allows for a clear separation of DNA and increases the reproducibility of your DNA purification.

2. Product Component and storage conditions

Kit Content: Each AutoMag ChIP DNA Prep Adem-Kit contains sufficient reagents to perform 48 extractions. The content of the kit are described in Table

Item	Description	Storage condition	Included with ChIP DNA Prep Adem-Kit for AutoMag Solution (#06241)
DNA extraction plate	4 prefilled plates per kit	+ 4°C	•
AutoMag Tip Combs	4 X12-tip comb for 96 Deepwell plate per kit	+20°C	•

Storage conditions: The kits are shipped at room temperature.

NOTE 1! Properly stored Kits are guaranteed until the expiry date. Note that shipping is realized at room temperature and will not affect stability. All components of the kit have been prepared under nucleases free conditions and have been thoroughly tested to ensure optimal performance.

NOTE 2! Storage conditions

All reagents in the kit can be stored at room temperature.



WARNING ! CHEMICAL HAZARD. DNA Extraction Plate may contain the following: guanidine thiocyanate, isopropanol, and ethanol. Refer to MSDS, and follow the handling instructions; and disposal.



WARNING ! CHEMICAL HAZARD. DNA Extraction Plate contains **LB Buffer (row D)** which in contact with acids or bleach liberates toxic gazes. Harmful if inhaled, absorbed through the skin, and swallowed. Cause eye, skin, and respiratory tract irritation. **DO NOT ADD** acids or bleach to any liquid wastes containing this product. Avoid breathing vapour. Do not taste or swallow. Use with adequate ventilation. Avoid contact with eyes and skin. Read the MSDS, and follow and handling instructions. Wear appropriate protect eyewear, clothing and gloves.

3. Required reagents and materials

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. To avoid contamination of your sample, wear face mask.

Materials required but not provided:

- AutoMag Instrument (Cat.# 21101) (includes the ChIP DNA Prep Adem-Kit script)

Accessory products:

The following products are available for purchase separately from Ademtech

CAT NO.	PRODUCT	PACKAGE SIZE
21101	AutoMag Instrument	Each
21102	Microtiter Deepwell 96 plate	1 pack of 50 pcs
21103	12-tip comb for 96 Deepwell plate	1 pack of 50 pcs

ChIP DNA Prep Adem-Kit Protocol

1. Instruction for DNA-CHIP purification

Required materials for extraction:

- AutoMag Instrument (#21101)

AutoMag Instrument is a low-to-medium-throughput purification system with a magnetic particle processor for DNA purification kits. With the AutoMag Instrument customers can process up to 12 samples per run with a working volume up to 1 ml. In addition, it is possible to run two purification methods sequentially without interruption, raising the throughput up to 24 samples
- ChIP DNA Prep Adem-kit Protocol script “**PurifChIPDW v1.1**”
- From the appropriate kit (ChIP DNA Prep Adem-Kit AutoMag Solution #06241)
 - The “DNA Extraction Plate”

The plates are designed to fit onto the AutoMag rack in only one orientation. Plate are sealed and pre-filled with the ChIP DNA Prep Adem-Kit reagents required for the protocol. Row B, G and H are empty
 - AutoMag Tips combs



AutoMag Instrument (Cat.# 21101)

Set up the AutoMag instrument for DNA extraction

1. Inspect the DNA Extraction plate.

NOTE!

One sealed and prefilled plate is required per 12 samples.

Before take-off the adhesive film from the top of the pre-filled reagent plate, briefly centrifuge in order to move all the reagents to the bottom. Gently remove the film of the pre-filled reagents plate.

Table 1 Summary of DNA Extraction Plate content

Row	Row name	Content
A	Elution	Elution Buffer
B	Tip	Empty
C	Magnetic particles	Prep-Adembeads
D	Capture	LBB Isopropanol
E	Wash 1	ChIP DNA Washing Buffer
F	Wash 2	ChIP DNA Washing Buffer
G	Empty	Empty
H	Empty	Empty

NOTE!

Row B is reserved for the tip comb

Row G and H are left empty

ChIP DNA Prep Adem-Kit AutoMag Solution

Transfer **200µl of your reverse chromatin** in each well of the **Row D**

2. **Place a 12-tip comb into row B of the prefilled reagents plate.**



12-tip comb for 96 Deewell plate (Cat.# 21103)

NOTE!

Only one tip comb can be placed onto a DNA extraction plate

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3. **Load the plate in the AutoMag Instrument and start the “PurifChIPDW v1.1”.**

Switch ON the AutoMag Instrument and make sure that you are using the 12-pin magnet head and heating block.

Select the protocol by using the arrows keys and press **START**

Load the pre- filled reagents plate as indicated on the AutoMag Instrument display and press OK.

NOTE! Place the A1 well of the sealed plate ensuring that it is in the upper right corner. The first A1 row is consequently always in the inner circle

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4. **After the run is completed, remove the DNA Extraction Plate and store the purified DNA.**

When the protocol is completed, remove the DNA Extraction Plate according to the instructions on the AutoMag Instrument display and turn off the instrument.

NOTE! Store or analyze the purified DNA accordingly. If DNA is not analyzed immediately, store it at 4°C for up to 24 hours. For longer period, consult laboratory guidelines. Freezing samples at -20°C has been shown to preserve DNA for longer periods of time.

Troubleshooting

Observations	Comments and suggestions	
Error message in instrument display	Refer to the user manual supplied with your AutoMag Instrument.	
The tip comb holder lifting mechanism is out of position	Switch the instrument OFF and ON, and try again. If the error appears during initialization or is otherwise repeated, contact service.	
The turntable rotating mechanism is out of position	Switch the instrument OFF and ON, and try again. If the error appears during initialization or is otherwise repeated, contact service.	
The magnet head holder lifting mechanism is out of position	Switch the instrument OFF and ON, and try again. If the error appears during initialization or is otherwise repeated, contact service.	
The plastic tip comb is not attached to the holder	Check if the tips are presents. If it looks all right, turn ON and OFF, and run the check protocol.	
Nor or low yield of DNA	Biological sample contains no or low amount of DNA.	Review protocol steps and reagents additions.
		Extract DNA from a different cutting from the sample

Warranty

This product is only for use in research. The purchaser is responsible to validate the performance of this product for any particular use, and to use the product in compliance with any applicable regulations.

The products are warranted to the original purchaser only to conform to the quality and contents stated on the vial and outer labels for duration of the stated shelf life. Ademtech's obligation and the purchaser's exclusive remedy under this warranty is limited either to replacement, at Ademtech's expense, of any products which shall be defective in manufacture, and which shall be returned to Ademtech, transportation prepaid, or at Ademtech's option, refund of the purchase price. Claims for merchandise damaged in transit must be submitted to the carrier.

Symbols



Reference Number



Symbol for batch code/lot number.

The symbol is accompanied by the manufacturer's batch code



Manufacturer

This symbol is accompanied by the name and address of the manufacturer.



Expiration Date

This symbol is accompanied by a date to indicate that the device should not be used after the end of the year, month or day shown.



Sufficient For

The number of items for which the contents of the pack is sufficient appears adjacent to the symbol.



Temperature Limitation / Temperature Range

Symbol for temperature limitation or temperature range. Both upper and lower limits are indicated adjacent to horizontal lines.

Ordering Information

- **Ademtech Kits**

CAT NO.	PRODUCT	PACKAGE SIZE
04643	ChIP Adem Kit for AutoMag Solution	24 ChIP

- **Instrument and consumables**

CAT NO.	PRODUCT	PACKAGE SIZE
21101	AutoMag Instrument	Each
21102	Microtiter Deepwell 96 plate	50 pcs
21103	12-tip comb for 96 Deepwell plate	50 pcs