

## Manual

# MagnifiQ™ 16 Blood Direct instant kit

Kit for automated, magnetic isolation of genomic DNA from blood samples in the 16 samples per plate format. Contains ready-to-use, reagent-filled plates and all necessary consumables. The isolation process does not require any prior sample preparation.

catalog #	size	compatible devices *
622A-16U-64	64 isolations	Auto-Pure 32A
622A-16V-64	64 isolations	Auto-Pure Mini Auto-Pure S32
622A-16U-256	256 isolations	Auto-Pure 32A
622A-16V-256	256 isolations	Auto-Pure Mini Auto-Pure S32

**\* Compatible devices**

The kit has been tested with specific Allsheng brand isolation devices. This does not preclude it from working with other devices. If your device is not listed, please contact us at [info@aabiotech.com](mailto:info@aabiotech.com).

For research use only.

**Guarantee**

A&A Biotechnology provides a guarantee on this product.

The company does not guarantee the correct performance of this kit in the event of:

- not adhering to the supplied protocol
- use of not recommended equipment or materials
- use of other reagents than recommended or which are not a component of the product
- use of expired or improperly stored product or its components

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## Advantages

- Simple and fast isolation procedure that requires no additional sample preparation.
- Repeatable results.
- High isolation efficiency.

## Specification

protocol time	~ 45 min
sample type	Blood: fresh or frozen
sample size	up to 200 µl
elution volume	100 µl
elution solution	Tris buffer
binding capacity	30 µg DNA
downstream applications	sequencing, qPCR, RT-PCR

## Description

**MagnifiQ™ 16 Blood Direct instant kit** is designed for genomic DNA isolation from blood samples. The isolation procedure requires no prior sample preparation. The isolated material is perfect for further analyzes and tests by PCR and real-time PCR methods and for sequencing.

The **MagnifiQ™** product series is based on the automated isolation of nucleic acids with use of magnetic beads. This method significantly shortens working time and reduces risk of mistake in comparison to manual methods.

# Contents

component	622A-16U-64		622A-16U-256		storage
	quantity	cat #	quantity	cat #	
<b>XP-BL</b> - extraction plate	4 pcs	K-P96U22XBL	16 pcs	K-P96U22XBL	15–25 °C
<b>Proteinase K</b>	1,5 ml	K-PRK-15A	6 ml	K-PRK-6	2–8 °C*
<b>Tris buffer</b> (10 mM, pH 8,5)	10 ml	K-TRIS-10	30 ml	K-TRIS-30	15–25 °C
<b>tip comb 8</b>	8 pcs	K-C8U-8	32 pcs	K-C8U-32	15–25 °C
<b>protective film</b>	4 pcs	K-MQF-4	16 pcs	K-MQF-16	15–25 °C

\* Proteinase K can be stored at 15-25 °C for up to 12 months.

component	622A-16U-64		622A-16U-256		storage
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<b>tip comb 8</b>	8 pcs	K-C8U-8	32 pcs	K-C8U-32	15–25 °C
<b>protective film</b>	4 pcs	K-MQF-4	16 pcs	K-MQF-16	15–25 °C

\* Proteinase K can be stored at 15-25 °C for up to 12 months.




## Additional equipment and reagents

### Necessary

- automated pipette
- pipette tips

# Protocol

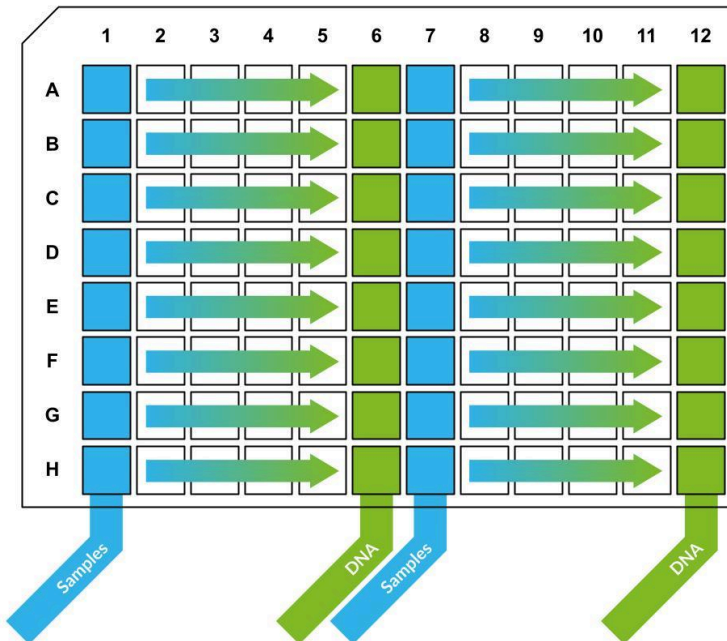
## Protocol files

device	protocol name	protocol file	installation
Auto-Pure Mini	MQ-BLD-MI	<a href="http://aabiotech.com/protocols/magnifiq/MI/MQ-BLD-MI.txt">aabiotech.com/protocols/magnifiq/MI/MQ-BLD-MI.txt</a>	<ol style="list-style-type: none"> <li>1. Create folder "items" on a USB drive and copy the protocol file to it.</li> <li>2. Insert the USB drive into a USB slot in the device.</li> <li>3. On a device screen, go to Settings &gt; System &gt; Transfer &gt; Import.</li> <li>4. Select the protocol and tap "Import".</li> </ol>
Auto-Pure Mini (QR code)	MQ-BLD-MI		<ol style="list-style-type: none"> <li>1. On a device screen, go to Run &gt;  &gt; </li> <li>2. Scan the QR code with the device's scanner.</li> </ol>
Auto-Pure 32A	MQ-BLD-32A	<a href="http://aabiotech.com/protocols/magnifiq/32A/MQ-BLD-32A.txt">aabiotech.com/protocols/magnifiq/32A/MQ-BLD-32A.txt</a>	<ol style="list-style-type: none"> <li>1. Create folder "items" on a USB drive and copy the protocol file to it.</li> <li>2. Insert the USB drive into a USB slot in the device.</li> <li>3. On a device screen, go to Settings &gt; Im.&amp;Export &gt; Import.</li> <li>4. Select the protocol and tap "Import".</li> </ol>
Auto-Pure S32	MQ_BLD_S32	<a href="http://aabiotech.com/protocols/magnifiq/S32/MQ_BLD_S32.txt">aabiotech.com/protocols/magnifiq/S32/MQ_BLD_S32.txt</a>	<ol style="list-style-type: none"> <li>1. Create folder "im_export_protocols" on a USB drive and copy the protocol file to it.</li> <li>2. Insert the USB drive into a USB slot in the device.</li> <li>3. On a device screen, go to Protocols &gt; Import.</li> <li>4. Select the protocol and tap "Import".</li> </ol>

## Extraction protocol

- Carefully centrifuge the **XP-BL** plate for **1 min** at **2000 RPM**.
- Gently remove the foil from the **XP-BL** plate.
- Add **200 µl** of blood sample and **20 µl** of **Proteinase K** to the wells in columns **1** and **7** of the **XP-BL** plate.  
**Attention.** If the volume of blood is less than **200 µl**, add Tris buffer to reach a total volume of **200 µl**.
- Place one or two **XP-BL** plates in the extraction device.
- Place the appropriate number of **tip combs 8** in the extraction device.
- Run the protocol on your device.
- After the program is over, remove the combs and then remove **XP-BL** plate from the extraction device and seal it with **protective film**. The extracted DNA is located in columns **6** and **12**.

**Note.** For longer storage of extracted material, transfer it from the plate to appropriate tubes and store at 4 °C.



## Safety information

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**DANGER**

### Proteinase K

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

P261 Avoid breathing dust.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311 If experiencing respiratory symptoms call a Poison Center or doctor/physician.

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**DANGER**

### XP-BL - extraction plate

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing vapors.

P305+P351+P338 If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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