



QuickGene-AutoS DNA blood kit (AS-DB)

Automated Genomic DNA Extraction from Human Whole Blood

Protocol

2 ml micro tube (sample tube) *1

Set into the device

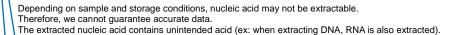
Protocol: DNA WHOLE BLOOD (Elution volume : 200 µl *4)

*Please refer to Quick Start Guide or operation manual to know how to set sample tube.

- 1. Pre-heating for 3 min
- 2. Add 250 µl of Lysis Buffer (LDB)
- 3. Mix by pipetting
- 4. Incubation at 50°C for 2min
- Transfer the lysate and mix with 250 μl of Ethanol(>99%).
- 6. Mix by pipetting
- 7. Apply the lysate into the cartridge
- 8. Pressurizing
- 9. Wash 3 times by Wash Buffer (WDB)
- Add selected volume of Elution buffer and elute genomic DNA into collection tube.

Genomic DNA

- *1 Following microtube are recommended. #BM4020 (BM instrument co., ltd) #72.695.700, #72.695.500S (SARSTEDT)
- *2 Leave EDB for 30 min at room temperature after adding nuclease-free water and mixing, and use it after perfect dissolution.
- *3 Using a whole blood sample treated with EDTA-2Na, EDTA-2K, or heparin, within 3 days after blood collection.
- *4 The standard yield is 4 to 8 μg from 200 μl of whole blood samples. The volume of the eluate from each cartridge is 200 μl. The volume of Elution buffer can be reduced to 50 μl, but in that case, elution efficiency might be decreased.







Results

The yield of genomic DNA

Sample ID	#1	#2	#3	#4	Average
Yield (μg)	5.6	5.4	5.6	5.5	5.5

Protein contamination: A260/280

Sample ID	#1	#2	#3	#4	Average
A260/280	1.94	2.13	2.04	2.10	2.05

Chaotropic salt contamination: A260/230

Sample ID	#1	#2	#3	#4	Average
A260/230	1.79	2.07	1.89	1.99	1.93

Common protocol is usable for the following

Canine Whole Blood

Contact Information

Corporate Office ADS BIOTEC Inc.

7409 Irvington Road Omaha, NE 68122 USA Phone: 888-974-7483 Fax: 800-402-3183

ADS Biotec Limited

40 Watt Road Hillington Park Glasgow, G52 4RY UK Registered in England and Wales Phone: +44 (0)141 892 8800

Phone: +44 (0)141 892 8800 Fax: +44 (0)141 883 5967

Email: info@adsbiotec.com web: www.adsbiotec.com

Depending on sample and storage conditions, nucleic acid may not be extractable. Therefore, we cannot guarantee accurate data.

The extracted nucleic acid contains unintended acid (ex: when extracting DNA, RNA is also extracted).



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