



Biomiga Inc.
The Inventor of EZgene™ and ViraTrap™ Systems

MgPure Tissue DNA Extraction Kit

MD2528

Introduction

The MgPure Tissue DNA Extraction Kit provides an automated and reliable procedure for extracting genomic DNA from tissues. Up to 30 mg of animal tissue, culture cells, mouse toe clips, mouse tail snips and paraffin-embedded tissue can be readily processed within 60 minutes. Purified DNA can be used in a broad range of downstream applications including genotyping, sequencing, and real time PCR detection. This protocol has been fully validated on Kingfisher Flex and IsoPURE 96. This kit can be adapted to major automation platforms such as Biomek FX, Hamilton Microlab Star, Hamilton Starler and many others.

Safety Information

Strictly follow CDC or Depart of Health guidance for handling infectious samples. Wear appropriate personal protective equipment (e.g. gowns, gloves, eye protection) when working with clinical specimens. Specimen processing should be performed in a certified biological safety cabinet accordingly following biosafety guidelines for the specific virus. Buffer MYE and Buffer RB contain chaotropic salts, which may form reactive compounds when combines with bleach. Do not add bleach or acidic solutions directly to the preparation waste, wear gloves and protective eyewear when handling.



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Kit Contents

Catalog#	MD2528-01	MD2528-02
Preps	4 x 96	20 x 96
Buffer TL	85 mL	400 mL
Proteinase K	8 mL	40 mL
MgPure Beads	4x96x100 µL	20x96x200 µL
Buffer MYE	4x96x600 µL	20x96x600 µL
Buffer RB	4x96x500 µL	20x96x500 µL
DNA Wash Buffer	4x96x500 µL	20x96x500 µL
Elution Buffer	4x100x96 µL	20x100x96 µL
Magnetic rod comb	4	20
User Manual	1	1

Storage and Stability

Store proteinase K at -20°C. Store all other components at room temperature (15-25°C). All kit components are guaranteed for 1 year from the date of purchasing.

**Automated DNA extraction protocol**

1. In 96 well plate, add 200 μ L Buffer TL to up to 30 mg of tissue. Add 20 μ L of proteinase K. Mix well by pipetting and incubate at 50°C for 30-60 minutes. Vortex the sample every 10-15 minutes. Make sure the tissue is completely digested before proceeding to the next step.
2. Transfer the sample from step 1 into each well of the Buffer MYE Plate.
3. Start the instrument, place a new magnetic rod comb in the Buffer MYE plate.
4. Follow the instrument prompt, load the plates to the corresponding position.
5. Collect the purified DNA after the program is completed.

Table 1. 96-well plate setting

96-well plate	Sample / reagent	Vol. (μ L)	Plate description	Note
Lysis Binding	Buffer TL	200	Prepare by user	Ensure the total volume is $\leq 1000\mu$ L
	Buffer MYE Isopropanol	200 350	Add by user	
Beads	MgPure Beads	10	Add by user	
	Nuclease free ddH ₂ O	190		
Wash 1	Buffer RB	500	Add by user	
Wash 2	DNA Wash Buffer	500	Add by user	
Elution	Elution Buffer	100	Add by user	Elution volume can be adjusted according to specific requirements



Table 2. Extraction program

Step	Name	Plate position	Mix time min	Mix range (%)	Wait time min	Vol (μL)	Mix speed 1-10	Tm (°C)	Magnetize section (0-5)	cycle index (1-10)	Magnetize speed (1-10)	First magnetizeti me (s)	Second magnetizeti me (s)
1	Load	2	-	-	-	-	-	-	-	-	-	-	-
2	Lysis	2	10	80	0	1000	2	OFF	0	1	-	-	-
3	Beads	3	1	80	0	200	1	OFF	2	1	1	5	5
4	Binding	2	5	80	0	1000	8	OFF	2	2	1	10	10
5	Wash 1	4	1	80	0	500	8	OFF	2	1	1	10	10
6	Wash 2	5	1	80	2	500	8	OFF	2	1	1	5	5
7	Elution	6	5	80	0	100	5	50°C	1	3	1	30	-
8	Unload	4	-	-	-	-	-	-	-	-	-	-	-

Limited Use and Warranty

This product is warranted to perform as described in its labeling and in BIOMIGA’s literature when used in accordance with instructions. No other warranties of any kind, express or implied, including, without limitation, implied warranties of merchantability or fitness for a particular purpose, are provided by BIOMIGA. BIOMIGA’s sole obligation and purchaser’s exclusive remedy for breach of this warranty shall be, at the option of BIOMIGA, to replace the products, BIOMIGA shall have no liability for any direct, indirect, consequential, or incidental damage arising out of the use, the results of use, or the inability to use it product.

For technical support or learn more product information, please contact us at 858-603-3219 or visit our website at www.biomiga.com

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