

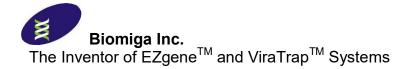
MgPure Tissue DNA Extraction Kit MD2528

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.

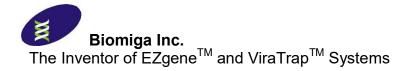


Kit Contents

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.

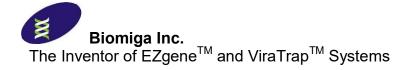


Automated DNA extraction protocol

- In 96 well plate, add 200 μL Buffer TL to up to 30 mg of tissue. Add 20 μL 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.

96-well plate	Sample / reagent	Vol. (µL)	Plate description	Note			
Lysis	Buffer TL	200	Prepare by user	Ensure the total volume is ≤1000µL			
Binding	Buffer MYE	200	Add by user				
	Isopropanol	350	Add by user				
Beads	MgPure Beads	10					
	Nuclease free ddH ₂ O	190	Add by user				
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 1. 96-well plate setting



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	-	-	-	-	-	-	-	-	-	-	-

Table 2. Extraction program

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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