

The logo for 'Mole' is written in a bold, orange, sans-serif font. A registered trademark symbol (®) is located at the top right of the letter 'e'. The logo is centered horizontally in the upper portion of the page.

**Mole**<sup>®</sup>

**MoleStrips<sup>™</sup> DNA Tissue**  
Prod No. MG11-101 / MG11-102

MGM-102-006

# MoleStrips™ DNA Tissue

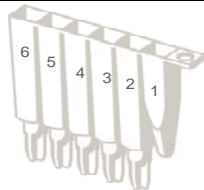
## Intended Use

MoleStrips™ DNA Tissue is used together with the GeneMole® instrument for purification of genomic DNA from solid tissue. For research use only.

## Material Supplied

Prod. No.	MG11-101	MG11-102
No. of preps	32	64
MoleStrips™	32	64
Lysis Buffer*	1 x 4.5 ml	1x 9 ml
MoleTips	96	--
Sample tubes	32	--
Elution tubes	32	--
MoleCaps	32	--

\*Extra lysis buffer is available as a separate product;  
Product No. MG11-103: Extra lysis buffer for MoleStrips™ DNA Tissue, 4 x 9 ml

Content of each well in the MoleStrips™	
1. Empty	 <p>MoleStrips™ DNA Tissue</p>
2. Magnetic Beads	
3. Wash A	
4. Wash B	
5. Wash C	
6. Elution Buffer (10 mM Tris)	

## Additional Material Required for Prod. No. MG11-102

Product	Prod. No.
MoleTips	MG10-012
MoleTubes (non sterile/sterile)	MG10-013/MG10-014
MoleCaps	MG10-015

## Storage

MoleStrips™ DNA Tissue should be stored dry, at room temperature (15-25 °C) and are stable for 6 months under these conditions.

## Starting Material

Fresh tissue samples or tissues stored at -70 °C can be used.

## Recommended Input and Expected Performance

DNA can be extracted from 1-15 mg tissue and GeneMole™ can process up to 16 samples in one run. The elution volume can be specified as 100 or 200 µl.

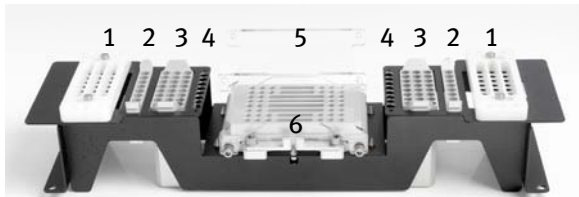
Different tissues have different DNA content, meaning that amount of input and the DNA yield will depend on what sort of tissue is used. Average concentration obtained from 10 mg mouse tissue samples is in the range from 20 µg/ml (for muscle) to 75 µg/ml (for liver). DNA purity, measured as OD A260 /A280, is in the range 1.80-2.00. Isolated genomic DNA is suitable for sensitive downstream applications.

## Protocol

1. Mix 100 µl lysis buffer with 2 µl of 20 mg/ml Proteinase K solution. Incubate the tissue sample in the lysis buffer overnight or until the tissue is completely lysed. Incubate at the optimal temperature for the Proteinase K of your choice.
2. Switch on the GeneMole® instrument. Wait until the power indicator turns green (may take 2 min).
3. Open the GeneMole® door and lift out the worktray.
4. Resuspend the MoleStrips™ content by turning the strips upside-down 3 times. Open the jig handles (ref 6 in figure 1) and place the black adapter plate with the MoleStrips™ in the jig. Fasten the MoleStrips™ to the jig by closing the jig handles.

**Important:** Please make sure the black adapter plate is positioned between the jig and the MoleStrips™ and ensure the MoleStrips™ are pressed all the way down into position before locking the MoleStrips™ in place.

5. Using figure 1 as a reference load the worktray with tips, elution tubes and MoleStrips™ according to the number of samples to be processed. Note that samples 1-8 are loaded on the left hand side of the worktray and sample 9-16 are loaded on the right-hand side of the worktray.



**Figure 1:** Loading of the worktray for DNA extraction;  
1: pipette tips, 2: elution tubes, 3: waste bin, 4: sample tubes, 5: MoleStrips™ and 6: jig handles

6. Pipette 100 µl tissue lysate into the sample tubes. Place the sample tubes in the worktray according to figure 1.
7. Place the worktray back into the GeneMole® and ensure it is correctly aligned by using the positioning pins located at the base of the instrument. Fit the pins into the holes located in each front corner of the worktray. Close the GeneMole® door.
8. Use the touch screen to select “**Run A Protocol**” from the *GeneMole Menu*. The *Run Preparation* screen will appear.
9. From the dropdown menu select the protocol “**DNA Tissue 8**” if preparing 1-8 samples or “**DNA Tissue 16**” if preparing 9-16 samples and confirm by pressing “**Accept**”. Specify the elution volume by activating the relevant window on the *Run Preparation* screen. Use the up and down buttons for scrolling.
10. Choose “**Next**”. The *Run Preparation* screen will appear. Verify correct loading of the worktray by pressing “**OK**”.
11. Start protocol run by pressing “**Start**”.

**Note:** The blinking green light located below the touch screen indicates that GeneMole® is carrying out a protocol run.

12. The touch screen will display “Run Completed” and the instrument will generate a sound signal when the run is completed. Upon completion of the run, open the GeneMole® door and collect the elution tubes containing the purified DNA. Discard the used tips and tubes.

Perform cleaning procedures if necessary. Cleaning and maintaining instructions are contained in the GeneMole® User Manual.

### **Safety Information**

When working with chemicals always wear protective gear. For more information, please consult the appropriate material safety data sheets. MSDS is available upon request.

### **Product Warranty and Satisfaction Guarantee**

Mole Genetics guarantees the performance of all products in the manner described in our product literature. The purchaser must determine the suitability of the product for its particular use. Product warranty limits Mole Genetics liability only to the cost of the product.

For further information about GeneMole® and available kits see  
[www.molegenetics.com](http://www.molegenetics.com)



**Mole®**