

Mole[®]

MoleStrips[™] DNA Blood
Prod. No. MG10-101 / MG10-102

MGM-101-005

**New and improved protocol implemented
with the piercing tool**
DNA Blood 8 now in 30 minutes
DNA Blood 16 now in 60 minutes

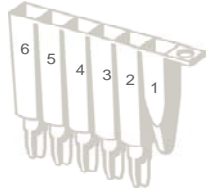
MoleStrips™ DNA Blood

Intended Use

MoleStrips™ DNA Blood is used together with the GeneMole® instrument for purification of DNA from 100 µl or 200 µl mammalian blood. For research use only.

Material Supplied

Prod. No	MG10-101	MG10-102
No. of preps	32	64
MoleStrips™	32	64
MoleTips	96	--
Sample tubes	32	--
Elution tubes	32	--
MoleCaps	32	--

Content of each well in the MoleStrips™	
1. Empty	
2. Lysis Buffer	
3. Magnetic Beads	
4. Wash A	
5. Wash B	
6. Elution Buffer (10 mM Tris)	

Additional Material Required for Prod. No. MG10-102

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

Storage

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

Starting Material

MoleStrips™ DNA Blood has proven to work for both fresh and frozen blood samples and with common anti-coagulants like EDTA, heparin and citrate.

Recommended Input and Expected Performance

DNA can be extracted from 100 or 200 µl whole blood samples and GeneMole® can process up to 16 samples in one run. The elution volume can be specified as 100 or 200 µl.

The yield of genomic DNA depends on sample volume and the number of white blood cells/ml (WBC/ml). A 200 µl human whole blood sample with a normal WBC count ($3.5 \times 10^9 - 4.8 \times 10^9$ cells/L) typically results in genomic DNA concentrations in the range 20-25 µg/ml and DNA purity, measured as OD A260/A280, in the range 1.80-1.95.

Protocol

1. Switch on the GeneMole® instrument. Wait until the power indicator turns green (may take 2 min).
2. Open the GeneMole® door and lift out the worktray.
3. 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 with the jig handles.

4. 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.

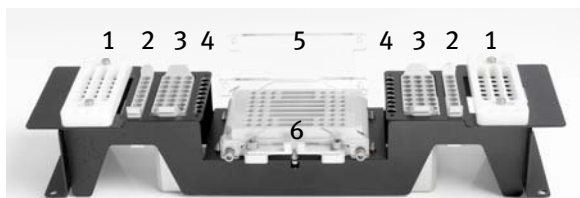


Figure 1: Loading of the worktray for DNA extraction;

1: pipette tips, 2: elution tubes, 3: empty waste bin, 4: sample tubes, 5: MoleStrips™ and 6: jig handles

5. Pipette 100 µl or 200 µl whole blood into the sample tubes (Ref *Starting Material* on previous page). Place the sample tubes in the worktray according to figure 1.
 6. 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.
 7. Use the touch screen to select “**Run A Protocol**” from the *GeneMole Menu*. The *Run Preparation* screen will appear.
 8. From the dropdown menu select the protocol “**DNA Blood 8**” if preparing 1-8 samples or “**DNA Blood 16**” if preparing 9-16 samples and confirm by pressing “**Accept**”. Specify the sample volume and the elution volume by activating the relevant windows on the *Run Preparation* screen. Use the up and down buttons for scrolling.
 9. Choose “**Next**”. The *Run Preparation* screen will appear. Verify correct loading of the worktray by pressing “**OK**”.
 10. 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.

11. 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

The logo for Mole Genetics, featuring the word "Mole" 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 on the page and is surrounded by three black dots: one above and to the right, one below and to the right, and one below and to the left.