



**DNA**  
stable®

**Blood (96-well plate)  
Quick Reference Protocol**

## Stabilizing DNA in Whole Blood

DNASTable® Blood matrix is a technology for safe, stable, and convenient storage of whole blood and buffy coat at room temperature (15–25°C). This medium is completely dissolvable and ensures total sample recovery. DNASTable® Blood 96-well plates should be stored dry in their original unopened packaging until use.

### Sample Drying and Storage

- Open plate cover from the 96-well plate.
- Add up to 25  $\mu$ l of whole blood or buffy coat into each well containing DNASTable® Blood matrix.
- Mix the sample by placing the DNASTable® Blood plate (in the carrier plate) on a microtiter plate shaker, and shake for about 15 min at 600–800 rpm.
- Place AirPore seal across well-plate.
- Dry the uncovered sample completely using a vacuum evaporator, such as a Speedvac or Vacufuge at room temperature (15–25°C).
- Store at room temperature (15–25°C), protected from moisture by either:
  - 1) Storing in a dry storage cabinet or
  - 2) Heat-seal the moisture barrier bag, including the dried mixture and desiccant packet.
- Dry storage cabinets and additional moisture barrier bags are available at <http://www.biomatrix.com/products.php>



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### Sample Recovery: Just Add Water

- Add 100  $\mu$ l of DNase-free H<sub>2</sub>O to each well containing stored DNA sample.
- Place well-plate on a shaker, and incubate at room temperature with continuous shaking at 500 rpm until the blood is rehydrated.  
*Rehydration time is dependent on original blood volume and storage time, and may vary from 15-30 minutes. To avoid cross contamination of samples, do not shake at higher speeds.*
- Transfer the rehydrated mixture to a clean microfuge tube and follow the kit protocol for manual or automated purification of DNA from blood or buffy coat.
- Repeat the above steps with another 100  $\mu$ l of DNase-free H<sub>2</sub>O (Only for QIAamp® DNA blood mini kit).

### Purified DNA samples can be used directly in downstream applications such as:

- PCR
- qPCR (see handbook for details on dilution factors)
- Sequencing
- STR Analysis
- Whole Genome Amplification

**For more information, please refer to the DNAstable® Blood handbook at <http://www.biomatrix.com/products.php>**