

**DNA**
stable®**Blood
Quick Reference Protocol****For sample recovery, see reverse**

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 Tube Plates should be stored dry in their original unopened packaging before use.

Sample Drying and Storage

- Open tube or remove cover from 48-well plate.
- Add 50-200 μ l of whole blood into the center of the vessel containing DNASTable Blood matrix
- Mix the sample by placing the DNASTable blood 48-well plate or the tubes (placed in the provided carrier plate) on a Microtiter plate shaker, and shake for 15 min at 600-800 rpm
- Dry the uncovered sample completely under a laminar flow at room temperature (15–25°C); or by placing in a ventilated incubator; or oven set to 40°C
Drying times are dependent on the blood volume and the drying conditions
- Cap tube or cover plate with an AirPore Tape sheet after drying.
- Store at room temperature (15–25°C) and protect from moisture by either:
 - 1) Storing in a dry storage cabinet or
 - 2) Heat seal the moisture barrier bag, enclosing the dried sample and desiccant packet.
- Dry storage cabinets and additional moisture-barrier bags are available at **www.biomatrica.com**.

Drying Times (hours) in a Laminar Flow Hood*

Sample Volume (μ l)	Tube	48-well plate
50	4	-
100	6	7
200	8	14

Drying Times (minutes) in a ventilated incubator at 40°C

Sample Volume (μ l)	Tube	48-well plate
50	3	-
100	5	4
200	6	7

*Drying times may vary depending on the humidity level in the laboratory. Recommended drying times were determined at 50% relative humidity (RH). Typical HVAC controlled facilities have 40-50% RH.



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Sample Recovery: Just Add Water

- Add 300 μ l of DNase free H₂O to the tube or well containing stored sample.
- Place the plate or the tubes (placed in the tube carrier plate) on a thermal shaker, and incubate at room temperature with continuous shaking at 1000-1200 rpm until the blood is rehydrated.

Rehydration time is dependent on the original blood volume and the storage time, and may vary from 1 to 2 hours until the sample returns to liquid form. To avoid cross contamination of samples, do not shake at higher speeds

- Transfer the rehydrated blood mixture to a clean microfuge tube and follow the kit protocol for manual or automated purification of DNA from blood.

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
- Restriction Analysis

For more information, please refer to the DNAstable Blood handbook at www.biomatrix.com