DNAstable LD (Liquid-to-Dry) Quick Reference Protocol

Store DNAstable LD at 4°C

DNAstable LD is a liquid format of DNAstable that requires dry-down with DNA sample for stabilization at room temperature. This medium is completely dissolvable and ensures total sample recovery.

Sample Application and Drying

- Add 20µl of DNAstable LD to 1-100µl of DNA sample (≤**30µg**) stored in water or aqueous buffer.
- Gently pipette up and down to mix. Avoid forming bubbles.
- Dry sample in a laminar flow hood. For faster drying, a speed vacuum can be used at lowest temperature setting (25-30°C)
- Complete drying of sample can be tested by gently touching the dried matrix with a sterile pipette tip. A fully dried sample will not stick to the tip. In the event of incomplete drying extend drying time.
- Cap tube or cover plate with adhesive seals.

Sample Storage

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 containing the dried sample and a desiccant packet.

The recommended humidity level is ≤**40%** relative humidity.

Average Drying Times **(hours)** in a Laminar Flow Hood*

Sample Volume (µl)	Tube	96-well plate	384-well plate
5	4	4	8
6-10	6	6	12
11-20	12	8	24
21-50	28	18	NR
51-100	NR	24	NR
101-125	NR	24	NR

*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. NR: Not Recommended.

Average Drying Times **(minutes)** in a SpeedVac at Low Temperature (25-30˚C)**

Sample Volume (µl)	Tube	96-well plate	384-well plate
5	10	15	80
6-10	15	15	120
11-20	30	30	180
21-50	45	90	360
51-125	60	150	—
126-150	75	180	—

**Drying times may vary depending on model and condition of SpeedVac and vacuum pump used.

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Sample Recovery: Just Add Water

- Add 10-100 μl of H_2O or other liquid to the tube or well containing stored sample.
- Incubate for 15 minutes.
- Pipette gently to ensure complete mixing. Use directly in downstream application.
- It is not necessary to re-purify rehydrated samples.
- Rehydrated samples can be re-dried without loss of efficient sample stabilization. We do not recommend repeating the rehydration/drying process more than (3) times.

Samples can be used directly in downstream applications:

- PCR
- qPCR (see DNAstable handbook for details on dilution factors)
- Sequencing
- STR Analysis
- Whole Genome Amplification
- Restriction Analysis
- Transformation
- Cloning
- Genotyping, etc

For more information, visit www.biomatrica.com

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