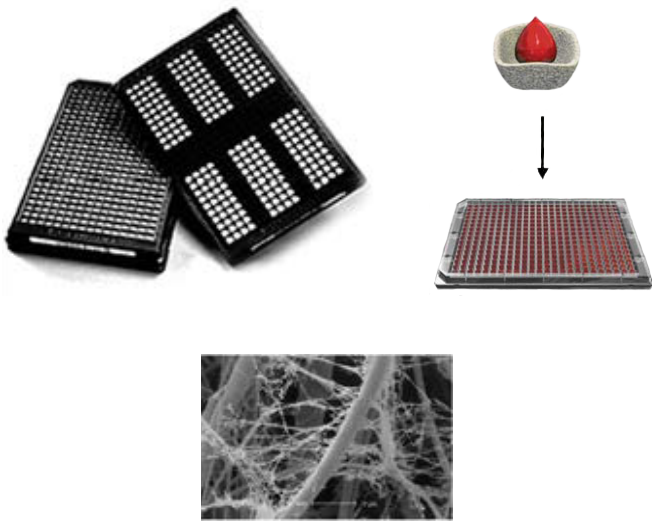


GenPlate®

Risk-free, High Density Ambient Dry State Storage and Transport of Biological Samples.



GenPlates are the only high density, dry-state storage technology with 18+ years of real-time stability data that also decreases storage and shipment costs while conserving space, time, and energy.

GenPlate Technology

GenPlates are a high density, proprietary format for storing and transporting biosamples at ambient temperatures, in the dry-state, embedded in 6 mm discs of FTA paper. FTA paper is a macroporous cellulose matrix that is chemically treated to inactivate bacteria and virus. Upon application of 10µl of blood or other biosample directly to the 6mm disc of FTA paper, cells lyse and release DNA. The DNA then becomes entwined in the fibrous network of the cellulose matrix. The entwined biosample is dried completely at room temperature and the dried sample is sealed with an adhesive cover and is ready for storage or transport at ambient temperature.

More than 18 years of data and analysis exist for DNA storage on FTA paper and the chemistry for recovering DNA from FTA paper has been thoroughly validated. DNA stored on and recovered from FTA paper has been reliably used in demanding downstream experiments such as Illumina and Affymetrix microarrays, HLA typing, WGA, PCR, and genotyping and NGS.

GenSolve – for better DNA recovery

When DNA is required for downstream analysis, high-quality double stranded DNA from FTA and Guthrie paper can be reliably recovered in high yield using the GenSolve chemistry. Yields using GenSolve are routinely 2-3 times higher than generic recovery methods.

Applications

- Cost-effective long-term biobanking and biosample storage
- Low cost shipping option
- Storage for retained biosamples
- Back-up option for primary samples

Reliable experimental-sized aliquots

- Each aliquot yields DNA sufficient for whole genome sequencing
- Room temperature format eliminates freeze-thaw cycles and subsequent degradation of the sample
- FTA paper has a proven history of biosample stability making GenPlates a safe and secure choice for biosample storage at room temperature
- No cross-contamination of samples; each aliquot is individually packaged
- Foil and plastic seals allow for multi-aliquot storage using a single container while maintaining single-aliquot use

High-throughput automation compatible storage

- GenPlates are compatible with commercially available liquid handlers and robotic systems
- Barcodes allow for positive convenient labeling and faster aliquot retrieval

Flexible & versatile

- Storage for multiple sample types
- Storage for one to 24 unique, multi-aliquot samples

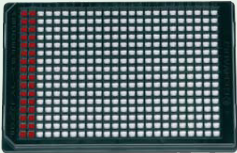
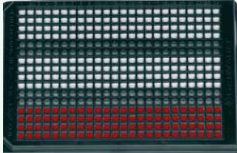
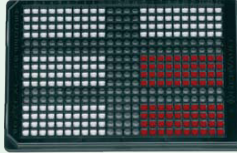
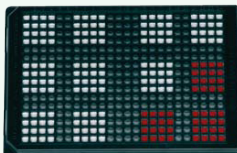

Non-biohazard shipping & transport

- FTA chemistry enables shipment of samples without "biohazard" labeling, without dry ice, and lower overall shipment weight resulting in more economical transportation

Cost-effective & sustainable

- Small footprint creates an economical and space efficient storage
- Low energy requirement compared to freezer storage
- Better organized samples = better time management

GenTegra

GenPlate Region Configuration	Number of Aliquots per Region	GenPlate Configuration
<p>1 Region</p> <p>For maximum number of single samples or for maximum amount of sample stored</p>	384	
<p>3 Region</p> <p>Holds three patients per GenPlate</p>	96	
<p>6 Region</p> <p>Well suited to DNA samples extracted from buccal swabs</p>	40	
<p>12 Region</p> <p>Well suited to DNA samples extracted from mouthwash collection</p>	16	
<p>24 Region</p> <p>Our most popular and commonly use format for human blood sample storage</p>	4	

Specifications

- GenPlates are 384-well half height (ANSI/SLAS 1-2004 standard) microplates
- Each well of sample region contains a 6mm disc of FTA paper
- Each disc in the well will hold 10µl of blood, purified genomic DNA (gDNA), purified plasmid DNA (pDNA), crude bacterial suspension (clones), or glycerol bacterial stock
- Using GenSolve each disc yields approximately 100ng of DNA
- Each plate is foil sealed top and bottom.
- GenPlates are formatted into five different region patterns
- Each plate contains a 14-digit barcode which specifies plate type, region configuration, and unique plate number

GenTegra

For more info visit our website:

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