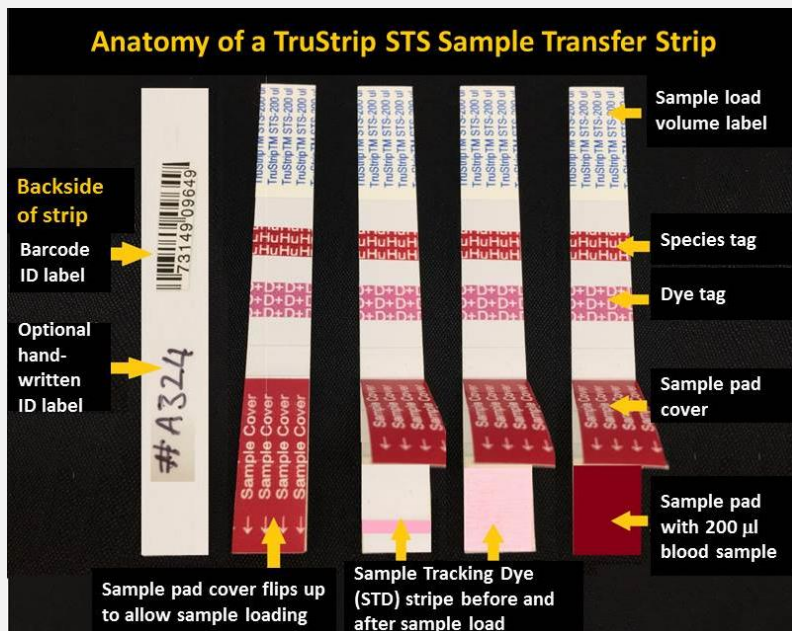


# TruStrip™ Sample Transfer System (STS) – A smart, efficient, tamper-proof and inexpensive means of collecting, archiving, transporting, and testing of biological samples



TruStrip™ strips and the storage / transport trays constitute the **TruStrip™ Sample Transfer System (STS)**. TruStrip strips are an efficient, tamper-proof, and inexpensive means of collecting defined volumes (5, 10, 15, 25, 50, 100, 200 and 400 µl) of biological samples (blood, serum, plasma, urine, proteins, antibodies, DNA, bioanalytical reagents, and chemicals) on pre-calibrated volumetric strips - without the need for any measuring devices such as a pipette. The samples that are collected on these strips can be used for archiving, transporting, and testing, as necessary. Individual strips containing samples are air dried and stored in a specially designed storage and transport tray for long term preservation at room temperature. The TruStrip tray design allows storage of thousands of individual samples in small amount of space. Samples are kept in individual trays that can be opened and closed without touching other samples. The samples collected on TruStrip strips can be easily shipped at room temperature without the use of refrigeration or dry ice, which prevents expensive shipping costs. The samples can be shipped as a single tray or in clusters of 5 - 10 samples. The dried samples from TruStrip strips can be quantitatively recovered by simple immersion and gentle shaking in water, saline, buffer or solvent. TruStrip strips have been designed for sample recovery and processing individually or in high-throughput 96-well formats.

The active sample pad of TruStrip strips also contains a proprietary "sample tracking dye (STD)" that enables tracking of sample load

(sample-on) and elution (sample-off) – very useful if the sample is colorless. The unique sample pad and strip design have added features, such as a non-porous inert support, prevention of sample contamination, separation of samples strip during storage and transport, color coded sample or species identification labels, and sample load volume labels. The backside of the strips can be used for writing sample ID or applying barcode labels, for easy identification. TruStrip STS eliminates the challenges in contaminant-free sampling, preserving, transporting, processing, and quantitative recovery of samples (proteins, enzyme, antigens, antibodies, and DNA). Environmental, toxicological, forensic, food, drug, and plant samples can also be transferred, archived, transported and tested.

*Clinical human or animal samples, such as dried blood spots (DBS) are considered non-hazardous by the US Dept. of Transportation (DOT). The Centers for Disease Control and Prevention (CDC) also considers DBS as a non-hazardous, non-regulated, and exempt material.*

TruStrip™ is a trademark of Alpha Diagnostic Intl for all strip-based products (patent pending).

## Key Benefits of TruStrip™ STS and Uses

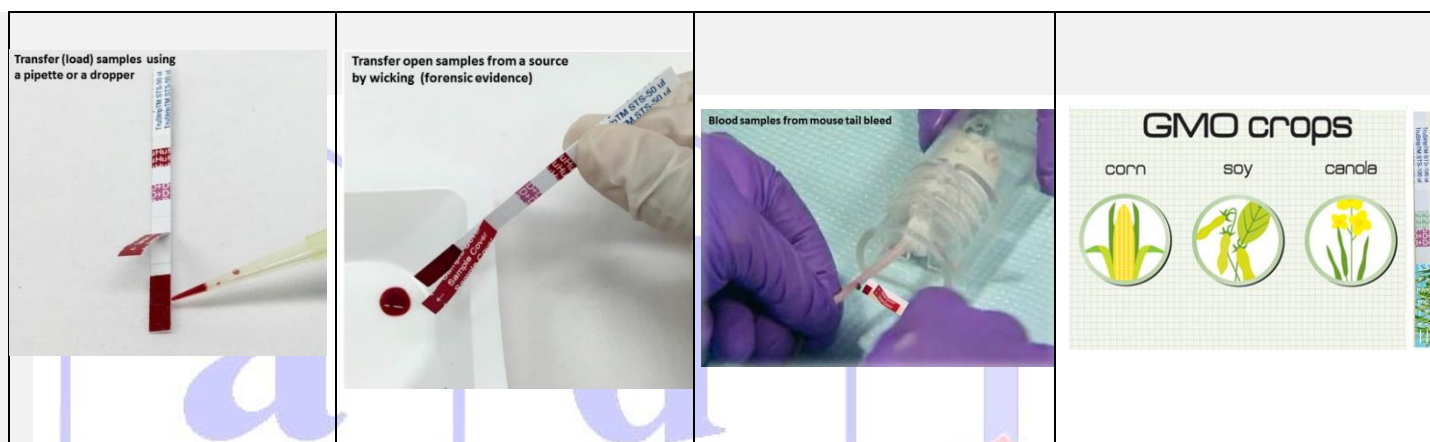
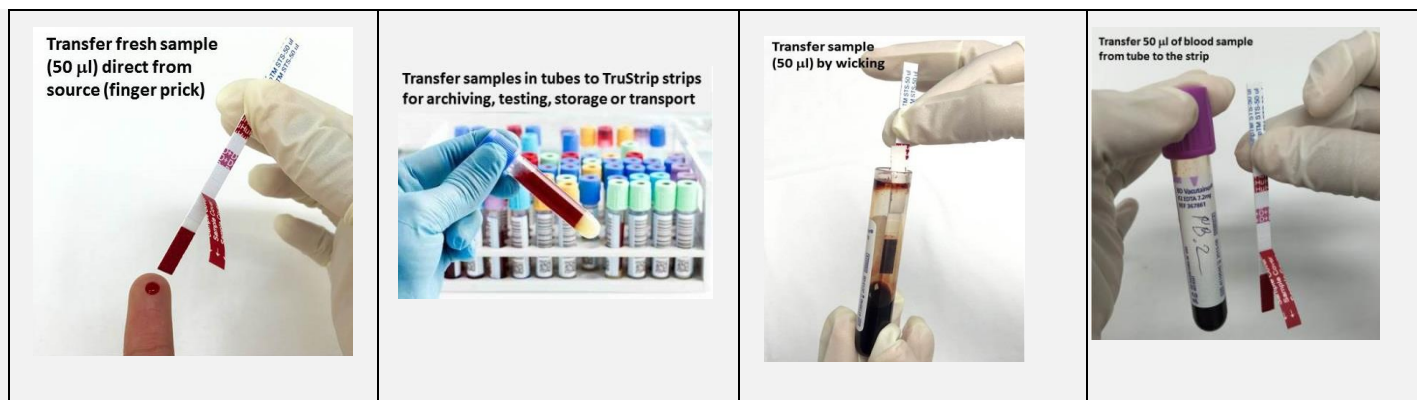
- Ability to collect known volume of sample (5 µl - 400 µl) without the need for any measurement devices
- Collect a variety of liquid samples (proteins, antibodies, DNA, drugs and chemicals) in laboratories or field
- Use of sample tracking dye assures tamper-proof sampling and recovery
- Visual identification of sample size, species, and identity (manual or barcodes)
- Sample archiving, storage and transport at ambient temperature, and without contamination
- Efficient storage of thousands of samples in minimal amount of space; high-throughput sample processing
- Ideally suited to collect and test biological samples such as proteins, antibodies, and DNA

## Performance Validation Data

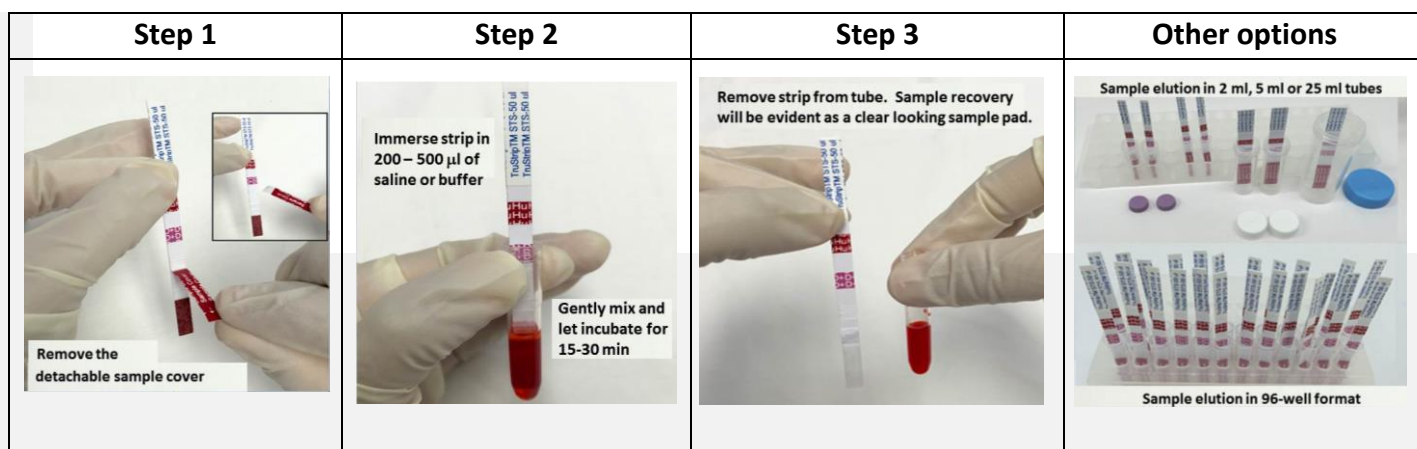
Sample Capacity and Recovery	
Sample load capacity of saline, blood, plasma, serum, urine, IgG, Albumin, DNA or plasmid DNA (15 ul - 800 ul)	96-105%
Recovery of total blood or plasma proteins	97-103%
Recovery of purified proteins or Antibodies	96-104%
Recovery of purified dsDNA or plasmid DNA	96-105%
Recovery of tracking dye	95-103%
Preservation of Biological Activity	
Functionality of antibodies to Ebola and FMD in whole blood or serum transferred, dried on STS strips, stored and recovery testing by ELISA; Functionality of purified antibodies (human or animal antibodies)	95-108%
Preservations of enzyme activity (purified enzymes such as peroxidase)	96-100%
Functionality of DNA or plasmid DNA (Transfection)	Yes
Sample Stability	
Samples (proteins, whole blood, serum, plasma), purified proteins & IgG stable at 4°C, -20°C, room temp (90 days) and 40°C (30 days)	Yes



## TruStrip™ STS - Sample Transfer Options





## TruStrip™ STS – Sample Elution / Recovery Methods



# TruStrip™ Sample Transfer Strips- Ordering Information



TruStrip strips <b>without</b> Sample Tracking Dye (STD)		
Cat#	Description	
STS-05-50	TruStrip™ Sample Transfer Strip, 5 µl, 50/Pk	
STS-15-50	TruStrip™ Sample Transfer Strip, 15 µl, 50/Pk	
STS-25-50	TruStrip™ Sample Transfer Strip, 25 µl, 50/Pk	
STS-50-50	TruStrip™ Sample Transfer Strip, 50 µl, 50/Pk	
STS-100-25	TruStrip™ Sample Transfer Strip, 100 µl, 25/Pk	
STS-200-25	TruStrip™ Sample Transfer Strip, 200 µl, 25/Pk	
STS-400-25	TruStrip™ Sample Transfer Strip, 400 µl, 25/Pk	
TruStrip strips <b>with</b> Sample Tracking Dye (STD)		
STSD-05-50	TruStrip™ Sample Transfer Strip with dye, 5 µl, 50/Pk	
STSD-15-50	TruStrip™ Sample Transfer Strip with dye, 15 µl, 50/Pk	
STSD-25-50	TruStrip™ Sample Transfer Strip with dye, 25 µl, 50/Pk	
STSD-50-50	TruStrip™ Sample Transfer Strip with dye, 50 µl, 50/Pk	
STSD-100-25	TruStrip™ Sample Transfer Strip with dye, 100 µl, 25/Pk	
STSD-200-25	TruStrip™ Sample Transfer Strip with dye, 200 µl, 25/Pk	
STSD-400-25	TruStrip™ Sample Transfer Strip with dye, 400 µl, 25/Pk	

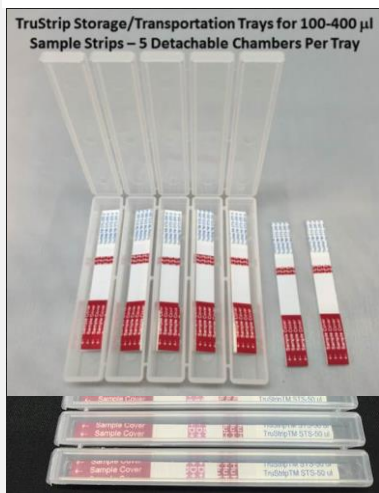
# TruStrip™ Sample Storage Trays- Ordering Information

Cat#	Description	Description
STT5-50	TruStrip™ Sample Storage/Transportation Trays for 5-50 µl Size Strips  (5 individual detachable chambers per tray, each chamber has "snap-close" lid; 10 trays for 50 strips)	
STT10-25	TruStrip™ Sample Storage/Transportation Trays for 100-400 µl Size Strips  (5 individual detachable chambers per tray, each chamber has "snap-close" lid; 5 trays for 25 strips)	





## TruStrip™ STS – Efficient Storage Options



**Storage of 500 Samples on TruStrip Strips  
Requires Only 7 inch x 10 inch x 4 inch Space**



Watch TruStrip™ Video at



<https://www.youtube.com/watch?v=FZB7L4zrwFM>



TruStrip-STS-Sample-Transfer-System Flyer 151229A

