

A Paradigm Shift: Desiccated Stabilized Transport System for Viral Specimen Collection

The COVID-19 pandemic has revealed the difficulties in providing access to accurate molecular testing to the broad population due to supply chain issues and high level of false negative tests.

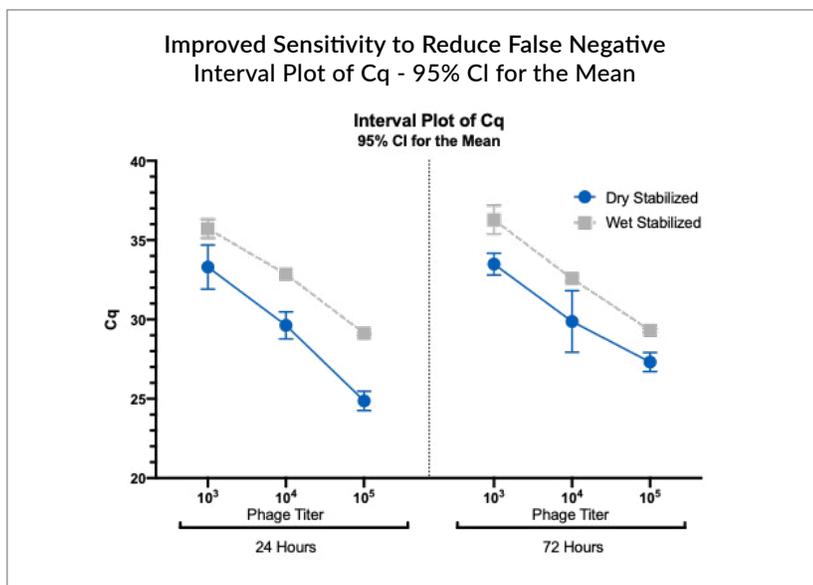
A surveillance testing system is required for governments to provide “return to work” guidance. The Covaris Desiccated Stabilized Transport System (DSTS) enables establishing a surveillance testing system with a low cost, stabilized sample collection protocol for centralized analysis.

The Covaris Solution:

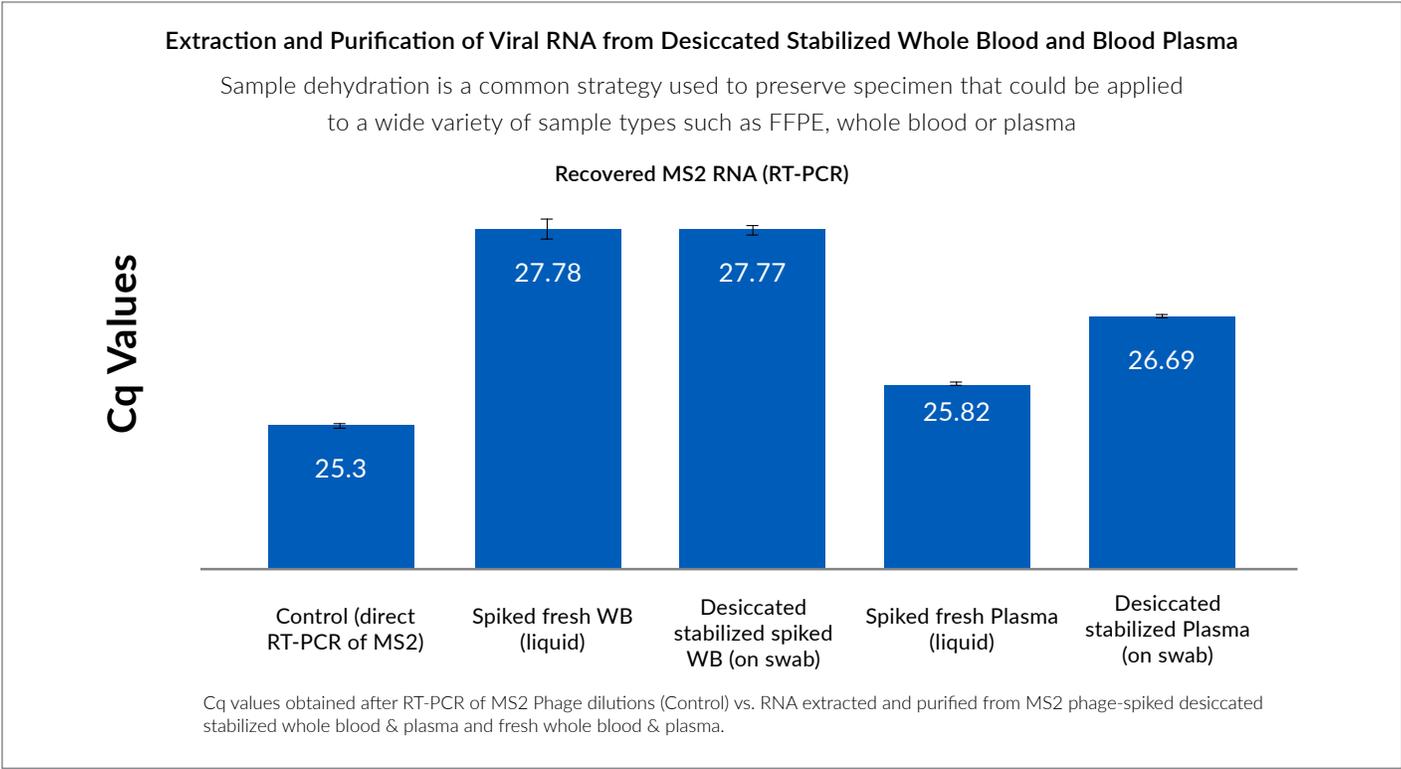
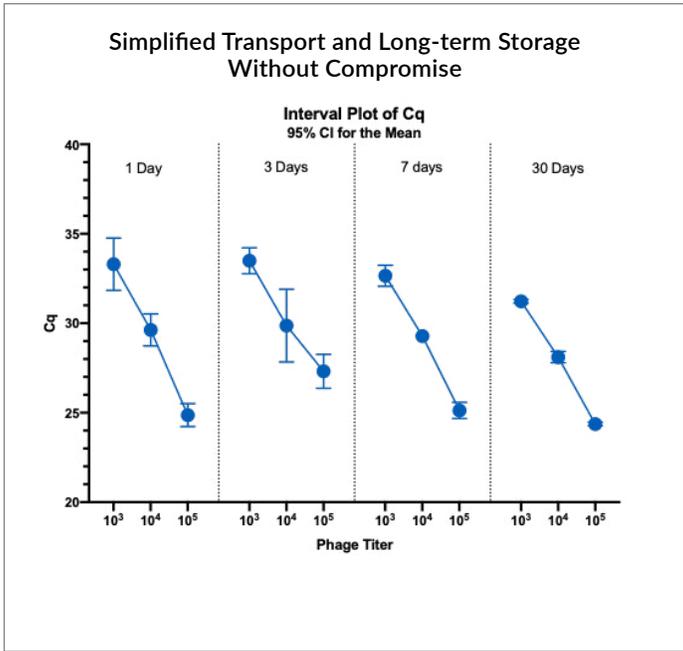
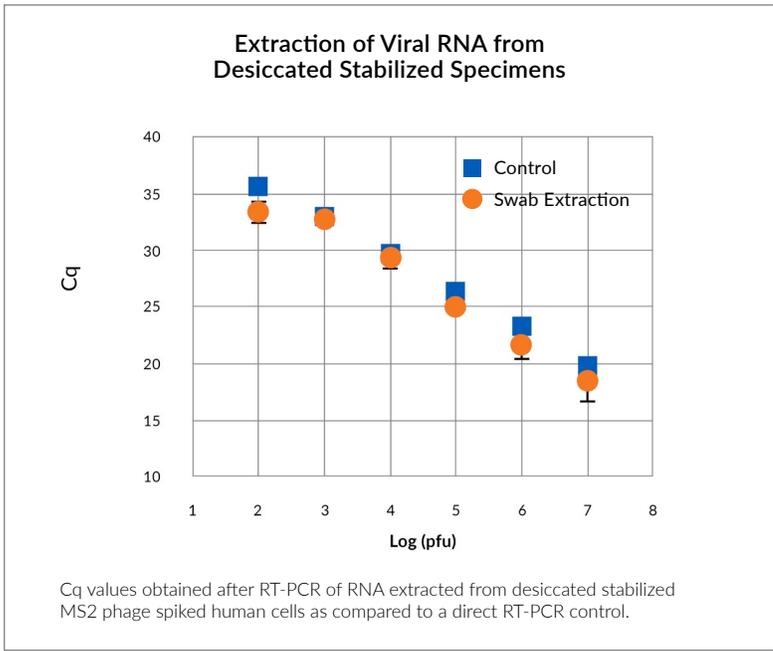
- Ambient temperature shipping and storage (5 to 37° C) for up to 30 days
- Active desiccated stabilization of swab samples containing specimens including buccal nasopharyngeal, saliva, sputum, plasma, whole blood
- Automation friendly, active rehydration and optional extraction and purification with AFA or other downstream extraction and purification system

Maximize your Recovery from Dried Preserved Specimens with Covaris AFA® Technology

Dry specimens are notoriously difficult to extract because they form a difficult matrix to rehydrate. Adaptive Focused Acoustics® by Covaris is the only method proven to rehydrate and extract intact RNA and DNA from a dry matrix in a matter of minutes with five to ten times more sensitivity than liquid storage.



	Wet Transport	Desiccated Stabilized Transport System	Desiccated Stabilized Transport System Benefits
Process	Chemical stabilization	Active Dehydration	No chemical contamination
	Sample dilution	Extract higher concentration of desired biomolecule	Higher assay sensitivity
	Various chemical formulations	Active desiccation with no additives	Standardized process and no added inhibitors
	Cold Chain logistics	Room temperature storage and shipping	Lower cost shipping and storage
Logistics	Limited availability	Amenable to stockpiling for early large scale response	Ideal for epidemic testing and surveillance
	Short term storage	Up to 7 days ambient temperature storage	Simplified sample management
	Requires expertise at collection site	Simplified collection for remote sites	Enable home self-collection



For more information, contact Covaris today!