

# Timestrip® Virus Specimen Transport - TTI

## Product Spec Sheet



### Timestrip® VST TTI (VST-TTI)

Timestrip® VST (Virus Specimen Transport) series has been specially formulated to provide an adequate quality control resolution for proper transport/storage of clinical viral specimens.

According to FDA & WHO regulations, Coronavirus specimens may be stored/transported/chilled between (2-8°C) for up to 72 hours after collection. In addition, virology specimen collection guidelines state similarly that “most viruses remain stable at 4°C for 2-3 days.”

However, although viruses are highly stable at chilled temps, it was reported that when exposed to temperatures above 50-55°C coronavirus specimens become non-infectious within short timeframe (hours).

Timestrip VST TTI was developed to follow the required time limitations of both the cold and hot temperature conditions. This unique, visual indicator, acts as a Time-Temperature Integrator (TTI) showing the accumulated time-temperature history of the virus specimen during transport/storage.

VST TTI label is designed to indicate (aligning with regulation) when 72 hours at 4°C have passed in time and within temperature range. It will indicate by showing full coloration (red) of the “TTI runout window.” If the transport/storage temperatures increase beyond/higher than the chilled recommendation of 4°C, the label will indicate by showing full coloration (red) sooner than 72 hours. When exposed to extreme hot temps (beyond 50-55°C) the “TTI runout window” will indicate an exposure within a few hours, corresponding to reported virus stability periods at these temps.



### Instructions for Use

After collection and insertion of a clinical specimen inside adequate packaging, VST TTI can be integrated simply, quickly, and safely within a few seconds.

1. Hold VST TTI indicator in your hand.
2. Firmly squeeze the button, between your thumb and forefinger.
3. Verify the appearance of a dark red thin line inside the small “activation window.” This confirms the indicator is active.
4. Peel off the liner from the back of the indicator and firmly adhere the VST TTI label to the packaged clinical specimen. Ensure full adhesion to the specimen packaging.

**Monitoring has begun.**

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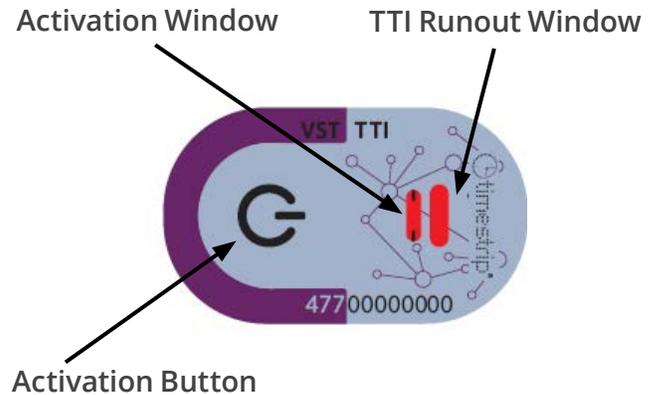
#### Performance Specifications:

VST-TTI shows lateral coloration of the TTI runout window.

Full coloration of the “TTI runout window” represents a combination of excessive heat over time according to the below conditions.

TEMP (°C) *	RUN-TIME (HRS.) **	REMARK
4	72	WHO acceptable limit
10.5	48	
23	24	
30	18	
40	12	
58	6	Indicate within a few hours
64	5	
75	3.5	
* Temperature Accuracy: ± 1°C		
**Time Accuracy: ± 15 % in time under isothermal conditions		
Activation Force: 5 ± 2 kgf		

PRODUCT SPECIFICATION	
Activation Button Position	Button on Top (BOT)
Color of Progressing Front	Red
Adhesive	#14009//Time3
Other	Not suitable for immersion in water
Usage	The usage of the product in any assembly or production line must be agreed upon in advance, as it may alter performance specifications.
Remark	Run-time window length will vary slightly between production batches.



Activation is applied by firmly squeezing the button (In case the activation line doesn't appear within 1-2 minutes, re-squeeze the button).

#### Product Construction

The indicator is constructed of polymeric assembly multilayer and aluminium-plastic laminate. It encapsulates coloured oils.

- All materials are non-toxic, latex, silicon and PVC free.

#### Storage Conditions (Unactivated)

Store indoors, at room temperature up to 30°C.

#### Shelf Life

3 Years from date of manufacture (MD). The MD is stated on each pack.

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