



**ARGUTUS MEDICAL**  
An EKF Diagnostics Company

# Human Urine Stabilising Buffer

for use with

Argutus Medical Human Alpha GST EIA

or

Argutus Medical Pi GST EIA

For Research Use Only

Not for use in diagnostic procedures

**REF** **BIO85STB**



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## **INTENDED USE**

The Urine Stabilising Buffer is intended for the stabilisation of GST in human urinary samples prior to testing using the Argutus Medical Human Alpha GST EIA or the Argutus Medical Pi GST EIA.

## **BACKGROUND**

In the absence of Urine Stabilising Buffer, freezing can reduce GST levels in urine as measured by EIA. This decline in urinary GST is most likely due to denaturation during the freeze-thaw cycle.

## **COMPONENTS**

1. Urine Stabilising Buffer

|     |     |
|-----|-----|
| BUF | USB |
|-----|-----|

Contains Thiomersal and sodium azide (10mL).

READY TO USE

2. Product Insert

|     |
|-----|
| INS |
|-----|

Instructions for use

## **PRECAUTIONS**

### **SAFETY**

- The Argutus Medical Human Alpha GST EIA and Pi GST EIA kits are for research use only, not for diagnostic procedures.
- Urine Stabilising Buffer contains Thiomersal, which may be toxic if ingested.
- Urine Stabilising Buffer contains sodium azide, which may form potentially explosive metal azides with lead and copper plumbing. For disposal, reagents should be flushed with large volumes of water to prevent azide build up.
- Dispose of all clinical specimens, infected or potentially infected material in accordance with good laboratory practice. All such materials should be handled and disposed as though potentially infectious.
- Wear protective clothing, disposable latex gloves and eye protection while preparing and handling specimens. Wash hands thoroughly when finished.
- Do not pipette materials by mouth and never eat or drink at the laboratory workbench.
- **WARNING:** This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (California Prop 65: Thiomersal).

## **SAMPLE COLLECTION**

- Do not use Urine Stabilising Buffer past its expiry date.
- Deviation from the protocol provided may cause erroneous results.
- Care must be taken not to contaminate components and always use fresh pipette tips for each sample and component.
- Do not use Urine Stabilising Buffer that contains precipitated material or is cloudy in appearance.
- Allow Urine Stabilising Buffer to come to room temperature (20-25°C). Mix well prior to use.
- Avoid leaving Urine Stabilising Buffer in direct sunlight and/or above 2-8°C for extended periods.
- Always use clean, preferably disposable, glassware for all reagent preparation.

### **STABILITY AND STORAGE**

Urine Stabilising Buffer should be stored at 2-8°C and is stable as supplied until the expiry date shown.

### **SAMPLE COLLECTION**

The Argutus Medical Human Alpha GST EIA and the Argutus Medical Pi GST EIA can be used to measure  $\alpha$ GST and Pi GST in urine samples, respectively. However, due to the diurnal variation in proteinuria, it is important for optimal results that timed, quantitative, overnight urine samples are collected and the collection period and volume are recorded.

As soon as possible after sample collection, add 200 $\mu$ l of Urine Stabilising Buffer to 800 $\mu$ l urine (4/5 dilution of sample) even if the samples are not to be stored.

### **SAMPLE HANDLING AND STORAGE**

Do not store samples without the addition of Urine Stabilising Buffer. Urine Stabilising Buffer must be added within 12 hours of sample collection.

It is recommended that samples are assayed as soon as possible after collection. However, after the addition of Urine Stabilising Buffer, samples can be stored 2-8°C for one week or at -20°C for up to 28 days.

Repeated freeze thawing should be avoided.

In the absence of Urine Stabilising Buffer, freezing can reduce GST levels in urine by up to 70% as measured by EIA. This decline in urinary GST is most likely due to denaturation during the freeze-thaw cycle.