

Viral Inactivation Buffer (VIB)

The LSG Viral Inactivation Buffer (VIB) has been developed in collaboration with the University of Bedfordshire. It has been formulated to provide a buffer that will inactivate viruses responsible for pandemics such as Covid-19 and seasonal influenza and epidemics such as SARS, MERS and Ebola.

This product has been developed to inactivate the pathogen in the transport tube containing a patient sample, to lyse cells and denature any virus in the sample, rendering the virus inactive and non-pathogenic. This results in a non-pathogenic sample for transport and testing with the added advantage that viral samples are destabilised due to the denaturation of degrading enzymes that may be present. Samples do not need to be maintained at +4°C, removing the requirement for a cold chain in handling and thereby greatly reducing transport costs.

The use of samples collected in VIB will increase laboratory throughput by reducing the requirement for Category 2+/3 handling of potentially pathogenic samples, increasing the speed and ease of testing. This VIB is widely compatible with current RNA extraction protocols and can be used without disruption to current processing protocols. Samples treated with VIB can also be used directly in standard RNA extraction protocols without the need to add further denaturing buffer in the first extraction step, thereby allowing samples to be added directly without dilution, making RNA extraction protocols more efficient and with higher sensitivity due to the increased volume purified.

This buffer acts as a stabiliser since the formulation will destroy the enzymes and proteins (including RNAses) which are responsible for the degradation of the RNA/DNA. The solution does not contain PCR inhibitors.

This formulation is provided as an Open Access publication for the benefit of facilities globally fighting to control the spread of Covid-19. This formulation has been validated by Public Health England.

Formulation

4M Guanidine thiocyanate
1% v/v Triton X100
20mM EDTA
20mM Tris HCl pH 7.40
0.5% w/v 2-mercaptoethanol
Water

Product Code	Product Description	Size
VIB-001A	Viral Inactivation Buffer LSG Protocol	500mL
VIB-001U	Viral Inactivation Buffer LSG Protocol	Custom packaging
VIB-001X	Viral Inactivation Buffer LSG Protocol	2mL
VIB-001G	Viral Inactivation Buffer LSG Protocol	1mL

For transport of viral swab use only. Not approved for human or veterinary use, for application to humans or animals, or for use in clinical or *in vitro* procedures.

Contains hazardous reagents. Please consult SDS for list of precautionary measures.

Support

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