

Inactivir® Viral Inactivation Buffer (VIB)

The LSG Viral Inactivation Buffer Inactivir® has been developed in collaboration with the University of Bedfordshire. It is a guanidine and detergent-based inactivation buffer 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 or other potentially pathogenic sample. It will 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 stabilised 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 Inactivir® 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 standard silica-based RNA extraction protocols and can be used without disruption to current processing protocols. Samples treated with VIB can also be used directly in silica-based RNA extraction protocols without the need to add further denaturing buffer in the first extraction step. This allows samples to be added directly to binding material without dilution. This simplifies RNA extraction protocols and increases sensitivity due to the increased sample volume purified.

This buffer acts as a stabiliser since the formulation will denature the enzymes (including RNAses) which are responsible for the degradation of the RNA/DNA. The chaotropic nature of the solution means it cannot be added directly to PCR based reactions.

This formulation has been validated by Public Health England

PRODUCT CODE AND DESCRIPTION

VIB-001A	Inactivir® Viral Inactivation Buffer	500mL
VIB-001U	Inactivir® Viral Inactivation Buffer	Custom packaging
VIB-001X	Inactivir® Viral Inactivation Buffer	2mL
VIB-001G	Inactivir® Viral Inactivation Buffer	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.