

## Viral Inactivation and Stabilisation Buffer (VIB) Inactivir® SD COMPLETE

The Life Science Group (LSG) Viral Inactivation and Stabilisation Buffer Inactivir® SD COMPLETE has been developed in collaboration with the University of Bedfordshire. Its formulation is based on established viral inactivation methods 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 inactivation 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 Inactivir® SD COMPLETE will increase laboratory throughput by reducing the requirement for Category 2+/3 handling of potentially pathogenic samples, increasing the speed and ease of testing. VIB Inactivir SD COMPLETE has been validated for use in some 'direct to PCR' or loop-mediated isothermal amplification (LAMP) protocols that provide additional convenience and efficiency as the nucleic-acid extraction step is eliminated.

VIB SD COMPLETE has been developed to stabilise viral RNA and is suitable for use when samples are not being processed immediately.

### Validation data

This buffer has been shown to be compatible with specific manufacturer RT-QPCR assay mixed used in the detection of SARS nCoV-19 RNA using CDC published primer sets. It is also compatible with a range of standard RNA purification protocols used to provide purified RNA for RT-QPCR detection using the CDC primers. It has also been validated for LAMP detection methods for SARS nCoV-19 RNA using NEB (New England Biolabs) LAMP mastermix and published primer sets.

This buffer has been validated by Public Health England where it was demonstrated that treatment with Inactivir SD COMPLETE Viral Inactivation Buffer using 3 volumes product to 1 volume sample for 1 or 15 minutes reduced SARS-CoV-2 titre by  $\geq 4.5 \log_{10}$  TCID<sub>50</sub>/ml, to below the limit of detection of the tests.

**QUALITY - TRACEABILITY - INTEGRITY**

**Life Science Production**

The Science Centre, 1 Blaydon Road, Sandy, Bedfordshire SG19 1RZ

Tel: 01234 889180 Email: [sales@lifesciencegroup.co.uk](mailto:sales@lifesciencegroup.co.uk) Web: [www.lifesciencegroup.co.uk](http://www.lifesciencegroup.co.uk)

Life Science Production, Antibody Production Services and Diagnostic Kit Services are divisions of Life Science Group Ltd.

Company Registered in England Company Number 06606016



## Product Presentation

<b>Product Code</b>	<b>Product Description</b>	<b>Size</b>
VIB-004A	Viral Inactivation Buffer (VIB) Inactivir® SD COMPLETE	500mL
VIB-004C	Viral Inactivation Buffer (VIB) Inactivir® SD COMPLETE	50 mL
VIB-004E	Viral Inactivation Buffer (VIB) Inactivir® SD COMPLETE	10 mL
VIB-004U	Viral Inactivation Buffer (VIB) Inactivir® SD COMPLETE	3mL

**For transport of viral swab use only. Not approved 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.**

**Inactivation reagents should not be assumed to be 100% effective against SARS CoV-2.**

**QUALITY - TRACEABILITY - INTEGRITY**

**Life Science Production**

The Science Centre, 1 Blaydon Road, Sandy, Bedfordshire SG19 1RZ

Tel: 01234 889180 Email: [sales@lifesciencegroup.co.uk](mailto:sales@lifesciencegroup.co.uk) Web: [www.lifesciencegroup.co.uk](http://www.lifesciencegroup.co.uk)

Life Science Production, Antibody Production Services and Diagnostic Kit Services are divisions of Life Science Group Ltd.

Company Registered in England Company Number 06606016

