

Viral Inactivation Buffer (VIB) Inactivir® SD LITE

The Life Science Group (LSG) Viral Inactivation Buffer Inactivir® SD LITE 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 collection 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 testing. This buffer is designed for immediate testing procedures and to minimise additional components that could interfere with downstream detection. It does not contain additional components to inactivate potential degrading enzymes such as RNAses that may be present within a sample.

VIB Inactivir® SD LITE is designed for Point of Care (POC) or near-POC testing to allow safe handling of samples without the requirement for Category 2+/3 handling of potentially pathogenic samples. This is designed to enable safety assessments to validate limited liquid handling for POC and near-POC testing methods without the requirement for use of Class 2 safety cabinets.

The development of Inactivir SD LITE has focussed on its compatibility with 'direct to PCR' and loopmediated isothermal amplification (LAMP) viral detection methods that provide additional convenience and efficiency as the nucleic-acid extraction step is eliminated. As the SD LITE formulation does not contain RNase inhibitors it is not suitable for storage of samples.

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.

PRODUCT CODE AND DESCRIPTION

VIB-003A	Viral Inactivation Buffer (VIB) Inactivir® SD LITE	500 mL
VIB-003C	Viral Inactivation Buffer (VIB) Inactivir® SD LITE	50 mL
VIB-003E	Viral Inactivation Buffer (VIB) Inactivir® SD LITE	10 mL
VIB-003U	Viral Inactivation Buffer (VIB) Inactivir® SD LITE	3mL

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.