

# GAS Pathway Analysis of Medical Devices and Accessories

## *Biocompatibility evaluation of breathing gas pathways in healthcare applications*

It is important to address the risk of potentially hazardous substances being conveyed to the patient by the gas stream from various devices like ventilators, assisted breathing systems, oxygen concentrators, nebulizers, humidifiers, breathing tubes, masks etc. The ISO 18562 series of standards recently updated in March 2024 provide detailed guidance on how to perform the risk assessment.



## **Why GVS Cibatech**

GVS Cibatech has vast experience in polymer and material sciences and have been performing VOS (Volatile Organic Substance) across several industries for many years. These are highly complex and sensitive analysis wherein sampling of the gas is as important as the analysis.

Our state-of-the-art laboratory is fully equipped for such analysis with sampling chambers and pumps, TDS-GC/MS and HPLC instruments for VOS, Particulate matter sensors and full suite of chromatography and spectroscopic instruments for analysing leachable condensate. We can deliver to the testing requirements of the updated 18562 standards.

## **Our Deliverables**

- Gas pathway study as per 18562 – Part 2,3 and 4. (2024 updated version)
- Decisive identification of VOS.
- Toxicological risk assessment of detected compounds.
- Consulting and training support.

### **GVS Cibatech Pvt. Ltd.**

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