

PBM-Hale™

A non-invasive deep lung breath sample collection device



Separates saliva from the exhaled breath, providing a sample free from contamination

Enables collection of diagnostically relevant clinical and research breath samples

Supports personalised healthcare through precision diagnostics and tailored treatment decisions



THE PROBLEM

Invasive, inaccurate or contaminated respiratory sampling limits effective diagnosis or monitoring.



THE SOLUTION

PBM-Hale™ collects uncontaminated deep lung breath safely, non-invasively, through breathing.



KEY ADVANTAGES

- True access to the lower airways
- Simple, scalable, accessible
- Enables diagnostics and discovery

No saliva contamination

PBM-Hale™ separates salivacontaining large droplets arising from the mouth, from the fine aerosols produced in distal airways and alveoli. This means a clean saliva-free sample.

No environmental contamination

Self-lock/unlock in the collection vial lid allows it to enter and exit the assembly in a sealed configuration. This prevents both contamination and sample loss making the sample suitable for a range of analytical procedures.

Equipped with a one-way valve

Ensures one-way flow throughout the entire breathing cycle preventing any re-inhalation.

Workflow compatible

Standard collection vials fit seamlessly into existing lab equipment and processes.

Reliable and versatile

Reproducible samples suit-

able for molecular, micro-

biological and biomarker

analyses.



Generates samples within minutes, supporting pointof-care and clinical trial workflows.

Scalable solution

Adaptable for clinical use and research, from small cohorts to global trials.

For research use: A coolant chamber may be used in conjunction with PBM-Hale™ to increase sample yield.





Explore our team and PBM-Hale™ further at

www.pulmobiomed.com

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