

Switch to sputum analysis

COPD, cystic fibrosis, asthma, etc. could all be much better understood or treated if we had a more accurate view of the viscoelastic properties of sputum.

Rheomuco is specifically designed to allow biophysical analysis of sputum, while remaining simple to use even by non-specialists in rheology.



Whatever the stage of your research, Rheomuco can help

Research	Development	Clinical trials
Physiopathology		Efficacy
Screening	Efficacy	Dose range finding
: Pharmacodynamics	: Molecule benchmarking	: Secondary outcomes

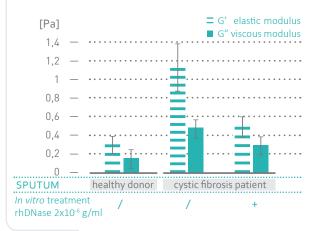
Looking for new ways to understand and analyze sputum? We are thrilled to present Rheomuco. Contact us to set-up a demo!

A biophysical solution for sputum analysis

Rheomuco is specifically designed to help you study and develop treatments for pulmonary disorders. Our innovative equipment measures the viscoelasticity of sputum and offers you real-time highquality rheological data which is easy to interpret.

Enhancing your research

Explorations of conditions associated with sputum-related problems generally rely on spirometry. A few studies have also reported the use of rheometers^{1,2}.



By precisely measuring the viscoelasticity of sputum, Rheomuco 1/ can distinguish between samples from healthy donors and patients, 2/ provides an objective measure to assess treatment efficacy.

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How does Rheomuco meet scientists' needs?

Advantages
Assay duration
Direct result readout

Germ identification

Rheomuco	Rheometer	Spirometer
10 min	1h	15 to 30 min
Yes	No	Yes
Yes	Yes	No

Rheomuco is a valuable complement to spirometry. It is an effective alternative to classical rheometers, reducing analysis time and providing comprehensive results without requiring analysis by a rheology expert.

Rheomuco: a 3-step protocol

- 1. Collect sputum samples
- 2. Prepare the sample 5 min (one measurement per sample)
- 3. Measure its viscoelasticity 10 min

The Rheomuco offer

The Rheomuco offer covers full support for method implementation, which includes:

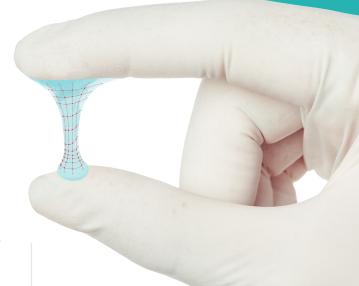
- Advice on collecting and preparing samples
- Installation of the Rheomuco
- Training for its use
- Installation of dedicated software for sputum analysis which pilots the device and handles data acquisition and analysis.

In addition, Rheonova proposes complementary tailored services:

- Maintenance
- Help with setting up new protocols or analyzing results.

Specifications

- Equipment dedicated to mucus analysis: G^* modulus > 0.1 Pa Range of measurements from mucociliary clearance to cough: 0.1 Hz 10 Hz
- Experiments performed at 37 +/- 0.1 °C
- Small footprint: L: 40 cm / W: 45 cm / H: 57 cm
- Measurement cell disinfection: washable & autoclavable, or disposable
- Dedicated software supplied, data exportable to PC Power supply: 220 V, 50 Hz
- No need for compressed air
- Torque resolution: 0,1µN.m



An innovation signed Rheonova

Rheomuco is developed by Rheonova, an expert in rheology for industrial applications. Since 2010, Rheonova has served and advised a range of industrial sectors – chemistry, pharmacy and cosmetics – helping them to measure, understand or improve complex viscoelastic properties of their products or in their processes. With Rheomuco, Rheonova has created an innovation both for rheology and for health, by providing accurate easy-to-use equipment for routine sputum analysis.