

Avisa BreathTest

SKU: MP47074



Categories: [Health Innovations](#), [Hospital use innovations](#)

Short Description:

The Avisa BreathTest™ is a biomarker, quantitative, point-of-care test for rapidly detecting pulmonary infections due to certain virulent pathogens without the need to collect and culture sputum or other biological samples. [Learn More](#)

Description

[vc_row][vc_column][vc_empty_space height="12px"][/vc_column][vc_row][vc_row][vc_column][vc_column_text]

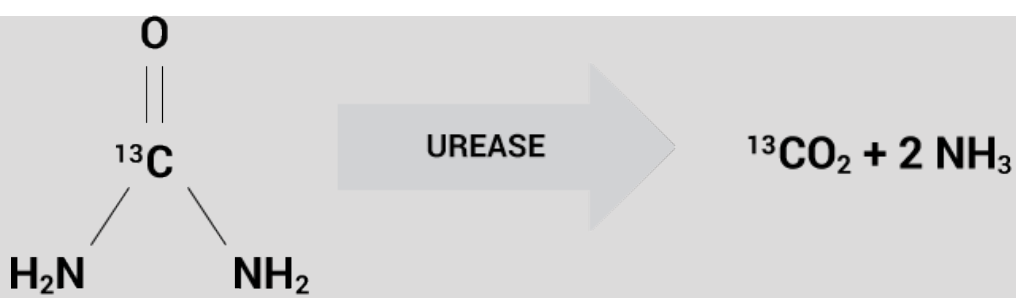
A biomarker point-of-care test for rapidly detecting pulmonary infections

The Avisa BreathTest™ is a biomarker, quantitative, point-of-care test for rapidly detecting pulmonary infections due to certain virulent pathogens without the need to collect and culture sputum or other biological samples.

[/vc_column_text][/vc_column][vc_row][vc_row][vc_column][vc_empty_space height="8px"][/vc_column][vc_row][vc_row full_width="stretch_row"][/vc_column][vc_column_text]

How does it work?

Urease Converts ^{13}C -urea to $^{13}\text{C}\text{O}_2$



Based on the presence of the urease enzyme

The Avisa BreathTestTM is based on the presence of the urease enzyme found in certain bacterial species that cause pneumonia, such as *S. aureus*, *P. aeruginosa*, *Klebsiella* and *H. influenzae*.

Live urease-containing bacteria can be detected using inhaled ^{13}C -urea which is converted by these bacteria to labeled carbon dioxide ($^{13}\text{CO}_2$) and ammonia. The non-radioactive, isotopic ratio of $^{13}\text{CO}_2$ to naturally occurring $^{12}\text{CO}_2$ is measured in the exhaled breath of the patient and is akin to an infection thermometer for the lungs.