

# AboGen

## What If We Could Use Saliva Instead of Blood to Perform 80% of the 5 Billion Diagnostic Tests Completed Every Year in the US?

*Although saliva contains nearly all of the same material as blood, and is much more user-friendly, its use in diagnostic testing has been very limited... until now.*

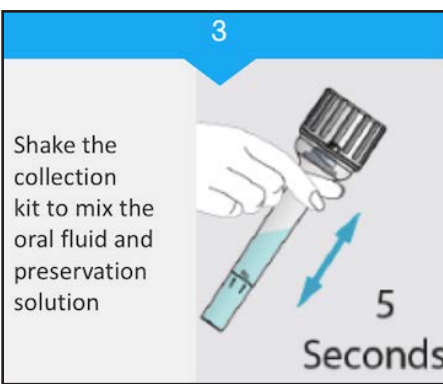
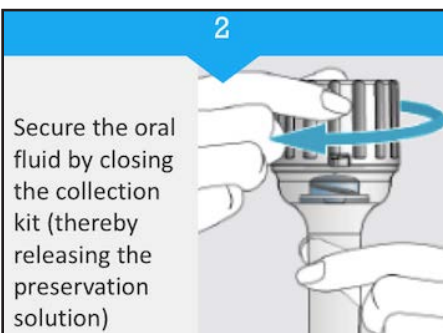
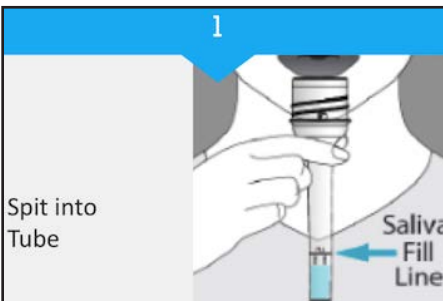
5 billion blood tests are performed every year in the US, 80% of which could be performed using saliva. Most of blood's components (e.g., white blood cells, proteins, DNA, bacteria, antibodies) are also abundantly present in saliva, but saliva has had limited usage for diagnostic testing by researchers and diagnostic companies because there was no practical method of collecting, preserving, and isolating these components from saliva. Until now...

The key feature of AboGen's disruptive technology is its proprietary preservation solution. Unlike blood samples that must be quickly refrigerated and have a testing-life expectancy of just 72 hours, AboGen's preservation solution protects saliva components at a biological half-life of up to 120 days at room temp.

AboGen's S3™ A Saliva Collection Kit has been independently validated at reputable academic institutions. AboGen enables researchers to use saliva instead of blood because of saliva's ease of use (kit can be used in patient's home, requires just a teaspoon of saliva, and preserves all components of saliva); simple logistics (transportation of the preserved sample without need for a rush service and without need for refrigeration is facilitated from the point of collection to the lab for testing); and significant cost advantage.

Potential diagnostic applications using the AboGen saliva collection kit are numerous. For example, the S3™ A Kit, presently sold as "Research Use Only" (RUO), can potentially be used in the future for WBC monitoring, liver function testing, lung cancer monitoring, HIV rapid screening, microbiome research, and eosinophilia monitoring for conditions such as COPD. Blood is currently used for these testing purposes.

The AboGen S3™ A Kit Used for the Collection of All Components of Saliva



### What the Experts Are Saying About AboGen's Disruptive Saliva Collection Platform



**Stephen Andrews, PhD**  
Co-Founder and CEO, AboGen;  
Pharmacology and Therapeutics  
doctorate, McGill University

*"The AboGen S3™ A Saliva Collection Kit has the potential to disrupt the diagnostic industry and move the healthcare paradigm away from blood-based samples, which require hospital visits and high direct and indirect costs, to spit-in-a-tube saliva-based samples for diagnostic testing."*



**Fereshteh Jahaniani, PhD**  
Research Associate, Stanford University  
School of Medicine, Center for  
Genomics and Personalized Medicine

*"AboGen's technology has greatly enabled my research. It is easy to use by the patient, noninvasive unlike blood collection, and has the great advantage of preserving the blood cells found in the saliva sample."*



**Lara A. Carlson, PhD**  
Associate Professor, Center for  
Excellence in the Neurosciences,  
University of New England

*"Saliva is a much more convenient method to study blood cells and blood proteins. In fact, utilizing AboGen's technology and collecting saliva instead of blood has greatly decreased my subject-recruiting efforts while increasing the number of participants in my research."*