

AboGen is a commercial-stage medical device company that has developed transformative technology: a **saliva collection and preservation technology** designed to preserve all the components in saliva and potentially replace up to 80% of the 5 billion *blood tests* performed annually.

SALIVA AND BLOOD CONSIST OF MANY SIMILAR COMPONENTS. The fact that most of blood's components (e.g., white blood cells, proteins, DNA, bacteria, antibodies, etc.) are also abundantly present in saliva is not news to researchers and diagnostic companies, but saliva has not been studied diligently because a practical method of collecting, preserving, and isolating these components from saliva has not existed. Until now...

THE ABOGEN SALIVA-COLLECTION TECHNOLOGY IS UNSURPASSED. Only two million oral fluid collection kits are sold yearly in the U.S. as they are appropriate solely for genetic testing; they do not allow for isolating blood cells or other extracellular proteins and factors. AboGen's kit allows users to capitalize on the robustness of saliva by rendering all its diverse components preservable and accessible for diagnostic testing.

THE ABOGEN MARKET OPPORTUNITY IS ENORMOUS. There are five (5) billion tests performed annually in the U.S. using blood. While saliva is a more user-friendly sampling technology, its use has been strictly limited to just a few applications because of numerous challenges. Now, AboGen has developed a saliva collection device that has overcome these hurdles, and can process 80% of the same components as blood.

CUSTOMERS HAVE VALIDATED THE UTILITY OF ABOGEN'S SALIVA KIT. "I wanted to conduct molecular studies on a family with early onset Alzheimer's disease. My studies required sample collection from patients living in remote areas; therefore, blood was not a suitable sampling material. AboGen's saliva collection kit greatly enabled my research," says Fereshteh Jahani, Ph.D, Stanford Center for Genomics and Personalized Medicine.

THERE ARE NUMEROUS APPLICATIONS FOR ABOGEN'S SALIVA TEST KIT. Two of the most notable applications for the AboGen saliva collection-and-preservation kit are home-based disease monitoring and standard blood-testing. For instance, the kit can be used to monitor COPD patients for disease management, and it can also be used to monitor liver function to check for drug efficacy.

CONTACTS & KEY INFORMATION

Headquarters	477 Congress Street Suite 1010 Portland, Maine 04101
Website	www.abogen.com
Ownership	Privately held
Funding	\$1.6 million seed financing (Maine Technology Institute and angels)
Industry	Life Sciences
Sector	Diagnostic Testing
Proprietary Technology	Blood cells from saliva are stable for months at room temperature when preserved with AboGen's preservation solution
Product Positioning	<i>S3™ A Saliva Collection Kit:</i> World's first to enable use of saliva instead of blood for commercial diagnostic testing
Market Opportunity	4 billion diagnostic tests per year in the US could use saliva instead of blood
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LEADERSHIP

Dr. Stephen D. Andrews
CEO, Co-Founder of AboGen

Youssef Biadillah
President, Co-Founder of AboGen

SCIENTIFIC COLLABORATORS

Fereshteh Jahani, Ph.D.
Stanford University School of Medicine
AboGen's technology has greatly enabled my research... easy to use with the great advantage of preserving blood cells found in saliva.

Lara A. Carlson, Ph.D.
University of New England
I would strongly recommend Abogen's technology and saliva collection as an option to all of my colleagues who currently conduct human research and utilize blood.

The S3™ A collection kit

USED FOR THE COLLECTION
OF ALL COMPONENTS OF SALIVA

- 1** Spit into tube
- 2** Secure the oral fluid by closing the collection kit (thereby releasing the preservation solution);
- 3** Shake the collection kit to mix the oral fluid and preservation solution.
5 Seconds

AboGen's kit preserves *all* components of saliva

Blood:

- White blood cells
- Proteins
- CTCs
- Platelets
- Red blood cells
- Cell free DNA
- DNA
- RNA
- Bacteria
- Antibody

Present Technologies:

- DNA
- RNA
- Bacteria
- Antibody

AboGen Technology:

- White blood cells
- Proteins
- CTCs
- Cell free DNA
- DNA
- RNA
- Bacteria
- Antibody