

November 4th, 2009

OralDNA Labs, Inc.
Innovations in Salivary Diagnostics
A Quest Diagnostics Company

Technical Update
Subject: Saliva Oral Rinse for Periodontal Testing

Dear Valued Customer,

OralDNA is excited to announce that effective Wednesday, November 4th 2009, an **oral rinse** will be available for use as a specimen collection medium for our periodontal testing services. Using saliva and sterile saline, this sampling technique can be used for both **MyPerioPathsm** and **MyPerioIDsm PST[®]** tests.

Background:

Saliva as a specimen source:

Saliva, best described as “oral fluid” is composed of more than just the fluid that is expressed from the salivary glands. This fluid is a filtrate of blood and provides a safe, effective and reproducible specimen for diagnostic and prognostic uses in medicine. It contains gingival crevicular fluid (GCF), plasma electrolytes such as potassium, sodium, chloride, and bicarbonate; as well as other plasma constituents: enzymes, immunoglobulins, and DNA. The particular DNA that is found in saliva is made up of both bacterial DNA as well as human DNA. Saliva is easily collected via a saline rinse that will be provided to customers by OralDNA Labs.

Significance:

Saliva presents some important recent advances for diagnostics. Its use for various human diseases is gaining popularity as it offers distinct advantages over other methods. These include the non-invasive nature of saliva collection, simplicity of collection, and less time required.

In general medicine, saliva analysis is increasingly being used for the diagnosis of infectious and malignant diseases, hereditary disorders, autoimmune diseases, and endocrine disorders--as well as for the assessment of therapeutic drug levels.

Modern laboratory technology, such as DNA-PCR, and advanced computer technology have facilitated great scientific progress in the use of saliva as a diagnostic medium. In oral medicine, these technologies have been shown to be effective means for the detection of periodontal pathogens, genetic variations and certain forms of oral cancer.

Resources:

1. Detection of Multiple Pathogenic Species in Saliva Is Associated with Periodontal Infection in Adults: J Clin Micro Jan. 2009, 235-238
2. Detection of Actinobacillus actinomycetemcomitans in Unstimulated Saliva of Patients With Chronic Periodontitis: J Perio, Feb 2005, 204-209
3. Population-Based Study of Salivary Carriage of Periodontal Pathogens in Adults: J Clin Micro, Aug. 2007, 2446-2451
4. Comparison of Subgingival Bacterial Sampling With Oral Lavage for Detection and Quantification of Periodontal Pathogens by Real-Time Polymerase Chain Reaction: J Perio Jan. 2007; 79-86

Summary:

The use of an oral rinse for the detection of pathogenic bacteria, bacterial load and genetic susceptibility traits has much appeal to the dental clinician. The simplicity and efficiency of an oral rinse will enable the clinician to offer diagnostic testing to more of their patients. OralDNA is pleased to be among the first oral health-focused laboratories to utilize an oral saliva rinse as a primary specimen source.

As an innovator in salivary diagnostics, OralDNA Labs, Inc. will continue to set the standard for the clinical application of modern science into the diagnosis and treatment of oral infections and diseases. Your patients and their health is our #1 concern.

Thank you for your continuing support.

Warm regards,

Thomas W. Nabors, D.D.S.
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Select Questions and Answers:**1. Q: How do I get started?**

A: If you are not a current customer of OralDNA Labs, please contact our sales and support team at (877) 577-9055. Existing customers may order the new collection supplies from our customer support team by calling (877) 577-9055 or online at www.OralDNA.com/OrderNewSupplies or send and email to support@OralDNA.com.

2. Q: Will you continue to accept paper point samples and/or buccal swabs after your conversion to the oral rinse?

A: Yes, we will continue to accept these **until December 31st, 2009**. However, we will supply you with oral rinse collection materials at the time of your next order.

3. Q: What if I have a localized infection where I want to use just one or two paper points to determine the level of infection in a particular site?

A: Published research and our corroborating studies indicate that the distribution of pathogenic bacteria is generally ubiquitous throughout the mouth such that your result from a test using the oral rinse will accurately represent the pathogenic flora of the oral cavity for which we are testing. (Detection of Multiple Pathogenic Species in Saliva Is Associated with Periodontal Infection in Adults: J Clin Micro Jan. 2009, 235-238. Viewable Here: <http://jcm.asm.org/cgi/content/full/47/1/235>)

4. Q: What if I'm in the middle of treating a patient and their initial test(s) were performed on paper points and the follow up test will be collected using the oral rinse method? Should I consider the results to be consistent to make treatment recommendations?

A: Yes, our internal studies as well as our research of similar studies have shown that the two methods of collection are comparable for such a purpose. Again, feel free to contact our Chief Dental Officer to discuss your particular patient's situation. [Contact Dr. Tom Nabors](#)