

WHAT KIND OF TESTING IS DONE AT BIOCOMP LABORATORIES?

Biocomp Labs is a CLIA certified lab located in Colorado Springs, Colorado. Previously known as Scientific Health Solutions or Peak Energy Performance.

We offer blood serum biocompatibility testing for dental materials.

Please see inside for other frequently asked questions.

PLEASE NOTE: Tests not available to residents of New York. Please contact your representative in Congress to voice your complaint.

CONSUMERS MAY



Obtain a prescription and test kit from their prescribing practitioner, or,



Order directly from Biocomp Labs (please include your name, address, phone, email, and name of practitioner).

HOW DOES ONE GO ABOUT GETTING THIS TEST?

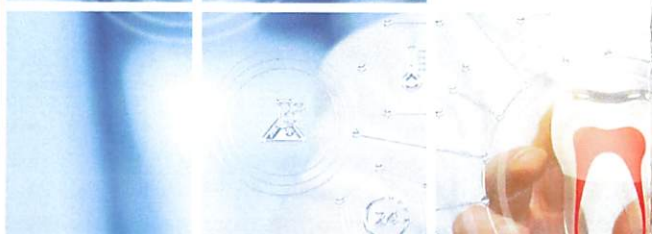
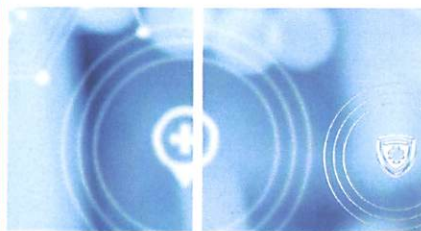
Every health practitioner who uses the Biocomp Laboratory testing procedure is automatically placed on our website following this path:

www.BiocompLabs.com ->

[Resources ->](#)

[Find a Practitioner](#)

This service is free of charge.



BIOCOMP LABS

Helping you choose the best dental materials.

TO CONTACT US

Call Toll Free 1 (800) 331-2303

Fax your request to (719) 572-8081

Email your request to:

biocomplab@biocomplabs.com



BIOCOMP LABS



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FREQUENTLY ASKED QUESTIONS

WHAT IS BLOOD SERUM BIOCOMPATIBILITY TESTING?

Biocompatibility testing is a sophisticated way to determine if a dental material is reactive to the immune system of a particular individual.

WHEN IS A SERUM BIOCOMPATIBILITY TEST INDICATED?

Although this test has applications for everyone having dental procedures, many patients who have health issues, chronic pain, or concerns about systemic well being should have knowledge about their body's reactivity to any dental materials placed in their mouths.

WHY DO I NEED A BIOCOMPATIBILITY TEST?

The dentist of today has many choices when it comes to selecting a dental material for restoring teeth. Consumers are more aware of health issues and, at the same time, have more chronic problems. Dental products are foreign to the body and will affect each individual's immune system in varying degrees.

BIOCOMP LABS

BIOCOMP LABORATORIES IS LOCATED IN
COLORADO SPRINGS, COLORADO.

HOURS OF OPERATION:
MONDAY THROUGH FRIDAY
9:00 AM to 4:00 PM (MST/MDT)

FOR MORE INFORMATION,
PLEASE VISIT OUR WEBSITE:
WWW.BIOCOMPLABS.COM

WHAT IS BEING EVALUATED?

Our test presently assays the reactivity to the components of over 3000 dental materials that can be placed into 21 different categories. Each category is then divided into three sections: Highly Reactive, Moderately Reactive, and Least Reactive.

Categories include products that fall under the listings of: cements, composites, high noble crowns, low noble crowns, dentures, bonding materials, temporary materials, etc. Each category has a continually growing list of dozens to hundreds of brand name products. We also test for aluminum.

Each dental product is followed by a code from which the dentist can find the name and phone number of the company that distributes that specific dental material making it easy to order.

WHAT KIND OF PREPARATION IS REQUIRED FOR THE TEST?

Blood may be drawn by any medical laboratory or medical office. The biocompatibility test is a fasting blood test so it would be ideal if the patient has not had anything to eat or drink (aside from water) for 8-12 hours prior to testing. The patient should also have NOT been on antibiotic therapy for the last 30 days. Other prescribed medications may be taken.

HOW IS THE TEST PERFORMED?

Serum - the portion of the blood involved with immunological reactions - is shipped frozen to Biocomp Labs. A small drop of the serum is placed into a testing well and mixed with one of many dental chemical components. Protein in the serum will precipitate if reactive to the dental material and prevent light from passing through it.

An optical density scanner measures the degree of light passing through and provides exact numbers for reactivity. These numbers translate into three categories: Least Reactive, Moderately Reactive, and, Highly Reactive. There is no category for Non-Reactive since the immune system will always react - even slightly - to anything it recognizes as "non-self".

HOW LONG DOES IT TAKE TO GET THE RESULTS?

Turn around time is generally two weeks. In certain circumstances, we can have the results faxed within five business days from the day we receive the specimen.

WE CHECK MATERIALS FOR ALUMINUM DUE TO ITS KNOWN TOXICITY IN HUMANS

RISK FACTORS

Diminished kidney function
Hemodialysis
Drinking or ingesting substances that are high in aluminum
Living/working in environments containing high levels of aluminum
Receiving long-term IV nutrition
Living in dusty environment

ADDITIONAL INFORMATION

Cytotoxicity of dental glass ionomers evaluated using dimethylthiazol diphenyltetrazolium and neutral red tests:

<https://www.tandfonline.com/doi/abs/10.1080/000163501300035760>

Release and toxicity of dental resin composite:

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3532765/>

Degradability of Dental Ceramics:

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.585.5037&rep=rep1&type=pdf>

Effects of aluminum and other cations on the structure of brain and liver chromatin:

<https://pubs.acs.org/doi/abs/10.1021/bi00435a043>

In vitro and in vivo studies on the toxicity of dental resin components - A review:

https://www.researchgate.net/profile/Michel_Goldberg2/publication/5806571_In_vitro_and_in_vivo_studies_on_the_toxicity_of_dental_resin_components_A_review/links/09e41506d9054ad4f0000000.pdf

In vitro investigation of aluminum and fluoride release from compomers, conventional and resin-modified glass-ionomer cements - A standardized approach:

<https://www.tandfonline.com/doi/abs/10.1163/156856200743706>

Corrosion of dental nickel-aluminum bronze with a minor gold content mechanism and biological impact:

<https://onlinelibrary.wiley.com/doi/abs/10.1002/jbm.b.31143>

Cytotoxic and genotoxic characterization of aluminum and silicon oxide nanoparticles in macrophages:

<https://www.sciencedirect.com/science/article/abs/pii/S0109564115000585>