

Please read the instructions and complete the Requisition form prior to collecting blood.

## 1. Choosing metals

The testing panels on the Requisition form (on page 2) are common combinations of metals used in alloys in dentistry and orthopaedics. However, you may need to check with your healthcare professional for the exact metal content of a device or implant. Even if your symptoms only began, or worsened, after a new device/implant was added, it is recommended to test for your total metal exposure. Multiple metals may increase corrosion, leading to a heightened immune response. You can create a personalized testing panel by selecting metals in the "Individual testing" section. *Please note:* Antigens marked with \* have been developed for research purposes only. The clinical relevance of a positive result to these substances has not been established.

## 2. Medication & health

MELISA testing measures an immune response. Any drug that suppresses the immune system may affect test results. Certain medication, such as steroids, must be avoided for 3 weeks to ensure accurate results. For a list of medication and factors that may affect testing, see [melisa.org/medication](http://melisa.org/medication). If testing shows that your cells are not responding properly because of medication taken, a reduced fee will be charged. If it is not possible to separate enough lymphocytes from your blood, the laboratory will prioritize the most frequently allergenic metals, based on your stated exposure and reason for testing.

## 3. Blood draws

- Blue top citrate tubes**
  - For 1-3 metals use 2 tubes
  - For 4-6 metals use 4 tubes
  - For 7-10 metals use 5 tubes
  - For 11-15 metals use 6 tubes
  - For 16-20 metals use 7 tubes

Keep at room temperature. Do not centrifuge, do not chill.

- Red top serum tube**
  - One 9 ml red top serum tube is required for autologous serum. If possible, spin the tube for 10 minutes at 1800 - 2200 rcf/g and keep at room temperature.

## 4. Shipping

Blood should be sent via FedEx on Mondays, Tuesdays and Wednesdays only, arriving max 48 hours after blood is collected. Please check for information about public holidays in Germany before shipping: [melisa.org/calendar](http://melisa.org/calendar). Ship the blood sample and the completed Requisition form to:

Invitalab, MELISA Department  
Stresemannallee 4b  
414 60 Neuss  
Germany  
Phone +49 2131 125 9690

## 5. Cost of testing

Costs are calculated based on the total number of metals tested.  
If multiple panels are selected, duplicate metals will only be tested and charged once.

1-5 metals	\$350	13-17 metals	\$470
6-9 metals	\$380	18-20 metals	\$520
10-12 metals	\$420	over 20 metals add \$15 per metal	

**Kit fee** \$30      **Transport by FedEx** approx \$100

## 6. Payment & Results

You will be invoiced 2 weeks after your sample is arrives at the lab. Payment can be made online through PayPal via credit card. Results cannot be released until payment is received.

## 7. Queries

If you have any questions about the testing procedure or about your test results, please contact us on [info@melisa.org](mailto:info@melisa.org) or 635 552 9637.

# Requisition form: MELISA<sup>®</sup> metal allergy testing



Complete and include with blood sample. See previous page for guide to testing.

Patient	Name		Date of birth	
	Address			
	Zip code		Country	
Email		Tel		
Clinic	Prescriber		Clinic	
	Address			
	Zip code		Country	
	Email		Tel	
Sample collection	Date of blood draw	MM / DD / YYYY	Collection time	HH : MM
	Send results to			<input type="checkbox"/> Clinic <input type="checkbox"/> Patient
<p><b>Please check to confirm that you understand:</b></p> <p>1) Immuno suppressants, such as steroids, must be avoided for 3 weeks to ensure accurate results. Systemic infection may also affect the results.</p> <p>2) After blood is collected, it must be delivered to the lab within 48 hours, or cells will not be viable.</p> <p>3) If not enough blood is sent, it's possible that not all substances requested can be tested. Priority will be given to metals mentioned in the box below. <input type="checkbox"/></p>				
<div style="border: 1px dashed gray; padding: 10px; width: fit-content; margin: auto;"> <i>Invitalab laboratory label here (do not fill)</i> </div>				
Health	Reason for testing and/or current metal exposure:			
Dental panels	<input type="checkbox"/> <b>A Amalgam fillings</b> • 5 metals • \$350 Copper, Inorganic mercury, Nickel, Silver, Tin		<input type="checkbox"/> <b>D Amalgam &amp; crowns</b> • 20 metals • \$520 Beryllium, Cadmium, Cobalt, Copper, Chromium, Gallium, Gold, Indium, Inorganic mercury, Iridium, Manganese, Methylmercury, Molybdenum, Nickel, Palladium, Platinum, Ruthenium, Silver, Tin, Tungsten	
	<input type="checkbox"/> <b>B Non-noble crowns</b> • 7 metals • \$370 Beryllium, Cobalt, Chromium, Manganese, Molybdenum, Nickel, Tungsten		<input type="checkbox"/> <b>E Titanium implant</b> • 5 metals • \$350 Aluminum, Nickel, Titanium dioxide, Titanium sulphate, Vanadium	
Orthopaedic panels	<input type="checkbox"/> <b>C Noble or gold crowns</b> • 8 metals • \$380 Gallium, Gold, Indium, Iridium, Palladium, Platinum, Ruthenium, Silver		<input type="checkbox"/> <b>F Cobalt Chrome / Stainless steel</b> • 6 metals • \$380 Chromium, Cobalt, Manganese, Molybdenum, Nickel, Tungsten	
	<input type="checkbox"/> <b>G Titanium / alloy / Nitinol</b> • 6 metals • \$380 Aluminium, Nickel, Niobium, Titanium dioxide, Titanium sulphate, Vanadium		<input type="checkbox"/> <b>I Spinal implants</b> • 12 metals • \$420 Aluminum, Chromium, Cobalt, Nickel, Niobium, Manganese, Molybdenum, Tantalum, Titanium dioxide, Titanium sulphate, Tungsten, Vanadium	
	<input type="checkbox"/> <b>H Oxinium</b> • 4 metals • \$350 Chromium, Niobium, Tin, Zirconia*		<input type="checkbox"/> <b>J Surgical pre-test</b> • 15 metals • \$470 Aluminum, Beryllium, Chromium, Cobalt, Manganese, Molybdenum, Nickel, Niobium, Tantalum, Tin, Titanium dioxide, Titanium sulphate, Tungsten, Vanadium, Zirconia*	
Individual testing	<input type="checkbox"/> Aluminum (Al) <input type="checkbox"/> Antimony (Sb) <input type="checkbox"/> Beryllium (Be) <input type="checkbox"/> Bismuth (Bi) <input type="checkbox"/> Cadmium (Cd) <input type="checkbox"/> Calcium titanate <input type="checkbox"/> Chromium (Cr) <input type="checkbox"/> Cobalt (Co) <input type="checkbox"/> Copper (Cu)	<input type="checkbox"/> Ethylmercury <input type="checkbox"/> Gallium (Ga) <input type="checkbox"/> Gold (Au) <input type="checkbox"/> Indium (In) <input type="checkbox"/> Inorganic mercury (Hg) <input type="checkbox"/> Iridium (Ir) <input type="checkbox"/> Lead (Pb) <input type="checkbox"/> Manganese (Mn) <input type="checkbox"/> Methylmercury	<input type="checkbox"/> Molybdenum (Mo) <input type="checkbox"/> Nickel (Ni) <input type="checkbox"/> Niobium (Nb) <input type="checkbox"/> Palladium (Pd) <input type="checkbox"/> Phenyl mercury <input type="checkbox"/> Platinum (Pt) <input type="checkbox"/> Ruthenium (Ru) <input type="checkbox"/> Silicon dioxide <input type="checkbox"/> Silver (Ag)	<input type="checkbox"/> Tantalum (Ta) <input type="checkbox"/> Thimerosal <input type="checkbox"/> Tin (Sn) <input type="checkbox"/> Titanium dioxide <input type="checkbox"/> Titanium sulphate <input type="checkbox"/> Tungsten (W) <input type="checkbox"/> Vanadium (V) <input type="checkbox"/> Zirconia (ZrO <sub>2</sub> )*
	<b>Others*</b> <input type="checkbox"/> Candida <input type="checkbox"/> Casein <input type="checkbox"/> Gluten <b>Methacrylates*</b> <input type="checkbox"/> MMA <input type="checkbox"/> HEMA <input type="checkbox"/> TEGMA <input type="checkbox"/> EGMA			

Prices for multiple panels / individual substances: see Guide to testing (page 1)

\* Clinical relevance of positive tests not established  
01.04.2021