

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

- One 9 ml red top serum tube is required; spin the tubes for 10 minutes at 1800 - 2200 rcf/g (if possible)
- 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

DO NOT chill prior to shipping - blood should be kept 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  
Hammfelddamm 6  
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 metal	\$220	10-12 metals	\$400
2 metals	\$260	13-14 metals	\$450
3-4 metals	\$280	15-17 metals	\$500
5 metals	\$300	18-20 metals	\$550
6-9 metals	\$350	> 20 metals add	\$15 per metal
<b>Kit fee</b>	\$30	<b>Shipment by FedEx</b>	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 +44 20 8133 5166.

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

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



<b>Patient</b>	Name		Date of birth		
	Address				
			Zip code	Country	
	Email		Tel		
<b>Clinic</b>	Prescriber		Clinic		
	Address				
			Zip code	Country	
	Email		Tel		
<b>Sample collection</b>	Date of service	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>				<p><i>Invitalab laboratory label here</i></p> <p><i>(do not fill)</i></p>
<b>Health</b>	Reason for testing and/or current metal exposure:				
<b>Dental panels</b>	<input type="checkbox"/> <b>A Amalgam fillings</b> • 6 metals • \$350 Copper, Inorganic mercury, Methylmercury, Nickel, Silver, Tin		<input type="checkbox"/> <b>D Amalgam &amp; crowns</b> • 20 metals • \$550 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 • \$350 Beryllium, Cobalt, Chromium, Manganese, Molybdenum, Nickel, Tungsten		<input type="checkbox"/> <b>E Titanium implant</b> • 5 metals • \$300 Aluminum, Nickel, Titanium dioxide, Titanium sulphate, Vanadium		
	<input type="checkbox"/> <b>C Noble or gold crowns</b> • 8 metals • \$350 Gallium, Gold, Indium, Iridium, Palladium, Platinum, Ruthenium, Silver				
<b>Orthopaedic panels</b>	<input type="checkbox"/> <b>F Cobalt Chrome / Stainless steel</b> • 6 metals • \$350 Chromium, Cobalt, Manganese, Molybdenum, Nickel, Tungsten		<input type="checkbox"/> <b>I Spinal implants</b> • 12 metals • \$400 Aluminum, Chromium, Cobalt, Nickel, Niobium, Manganese, Molybdenum, Tantalum, Titanium dioxide, Titanium sulphate, Tungsten, Vanadium		
	<input type="checkbox"/> <b>G Titanium / alloy / Nitinol</b> • 6 metals • \$350 Aluminium, Nickel, Niobium, Titanium dioxide, Titanium sulphate, Vanadium		<input type="checkbox"/> <b>J Surgical pre-test</b> • 15 metals • \$500 Aluminum, Beryllium, Chromium, Cobalt, Manganese, Molybdenum, Nickel, Niobium, Tantalum, Tin, Titanium dioxide, Titanium sulphate, Tungsten, Vanadium, Zirconia*		
	<input type="checkbox"/> <b>H Oxinium</b> • 4 metals • \$280 Chromium, Niobium, Tin, Zirconia*				
<b>Individual testing</b>	<input type="checkbox"/> Aluminum (Al)	<input type="checkbox"/> Ethylmercury	<input type="checkbox"/> Methylmercury	<input type="checkbox"/> Silver (Ag)	<b>Others*</b>
	<input type="checkbox"/> Antimony (Sb)	<input type="checkbox"/> Gallium (Ga)	<input type="checkbox"/> Molybdenum (Mo)	<input type="checkbox"/> Tantalum (Ta)	
	<input type="checkbox"/> Beryllium (Be)	<input type="checkbox"/> Gold (Au)	<input type="checkbox"/> Nickel (Ni)	<input type="checkbox"/> Thimerosal	<input type="checkbox"/> Casein
	<input type="checkbox"/> Bismuth (Bi)	<input type="checkbox"/> Indium (In)	<input type="checkbox"/> Niobium (Nb)	<input type="checkbox"/> Tin (Sn)	<input type="checkbox"/> Gluten
	<input type="checkbox"/> Cadmium (Cd)	<input type="checkbox"/> Inorganic mercury (Hg)	<input type="checkbox"/> Palladium (Pd)	<input type="checkbox"/> Titanium dioxide	<b>Methacrylates*</b>
<input type="checkbox"/> Calcium titanate	<input type="checkbox"/> Iridium (Ir)	<input type="checkbox"/> Phenyl mercury	<input type="checkbox"/> Titanium sulphate	<input type="checkbox"/> MMA	
<input type="checkbox"/> Chromium (Cr)	<input type="checkbox"/> Iron (Fe)*	<input type="checkbox"/> Platinum (Pt)	<input type="checkbox"/> Tungsten (W)	<input type="checkbox"/> HEMA	
<input type="checkbox"/> Cobalt (Co)	<input type="checkbox"/> Lead (Pb)	<input type="checkbox"/> Ruthenium (Ru)	<input type="checkbox"/> Vanadium (V)	<input type="checkbox"/> TEGMA	
<input type="checkbox"/> Copper (Cu)	<input type="checkbox"/> Manganese (Mn)	<input type="checkbox"/> Silicon dioxide	<input type="checkbox"/> Zirconia (ZrO <sub>2</sub> )*	<input type="checkbox"/> EGMA	
<p><b>Prices for multiple panels / individual substances: see Guide to testing (page 1)</b></p>					<p>* Clinical relevance of positive tests not established</p> <p>30.6.2020</p>