



Micro Trace Minerals Laboratory

40+ years of clinical & environmental laboratory diagnostics

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MTM Newsletter

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- **Laboratory News**
 - **Glyphosate in Urine**
 - **Urine-Creatinine before and during Chelation**
 - **Vitamin B12 and Cobalt (Co)**
 - **Healing clays and Aluminum**
 - **Important information about Chromium (Cr)**
 - **Rare Earth Elements**
- **Medical Workshops and Conferences**
 - **Conferences and Workshops 2024**
 - **Webinars**

Laboratory News

■ **Glyphosate in Urine**

We have included the testing of glyphosate in urine.

Sample requirement: 10ml of morning urine or urine collected within 2 to 6 hours after exposure.

The assessment of glyphosate as a safe herbicide has changed in recent years. New studies indicate significant genotoxic, reproductive toxic and hormonal effects. 30 - 36% of glyphosate is absorbed in the gastrointestinal tract and distributed throughout the organism within 2 - 6 hours. 95% is excreted in the urine.

Glyphosate and its salts are broad-spectrum herbicides that are used in agriculture/forestry and in home/allotment gardens. The best-known product is "Roundup", which has been on sale since 1974. Farmers and amateur gardeners who use glyphosate are considered exposed people.

For more information:

<https://microtraceminerals.com/diagnostic-humans/environmental-toxins/glyphosate>

More information on environmental pollutants can be seen here:

<https://microtraceminerals.com/diagnostic-humans/environmental-toxins>

Or check our Laboratory Catalog:

<https://microtraceminerals.com/en/laboratory-catalog>

■ **Urine-Creatinine before and during Chelation**

Creatinine is a breakdown product of muscle metabolism that is excreted in the urine. Creatinine is also made when the body digests meat. Healthy kidneys remove creatinine from your blood and excrete it via urine. The creatinine concentration in urine is also a measure of hydration and reflects fluid consumption.



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Baseline Urine

Creatinine is excreted in the urine at a relatively constant rate of approximately 1.0-1.3 g per 24 h for women and 1.5-2.5 g/24 h for men. Higher values reflect dehydration or kidney disease. Urine creatinine values decrease with increased fluid consumption. We determined the mean creatinine value of over 17,000 baseline urine samples. It was 0.8 g/l; The standard deviation was 0.6 g/l. For women we determined an mean value of 0.7 g/l. The standard deviation was 0.53 g/l. The mean urine crease value for men was 1 g/l; the standard deviation 0.63 g/l.

More information:

<https://microtraceminerals.com/en/diagnostic-humans/urine>

DMPS Infusion

The intravenous injection, or the infusion of DMPS in 100ml NaCl does not significantly affect the urine creatinine value. The mean value of over 700 samples was 0.95 g/l; the standard deviation was 0.6 g/l.

Urine Creatinine after Combination Treatment

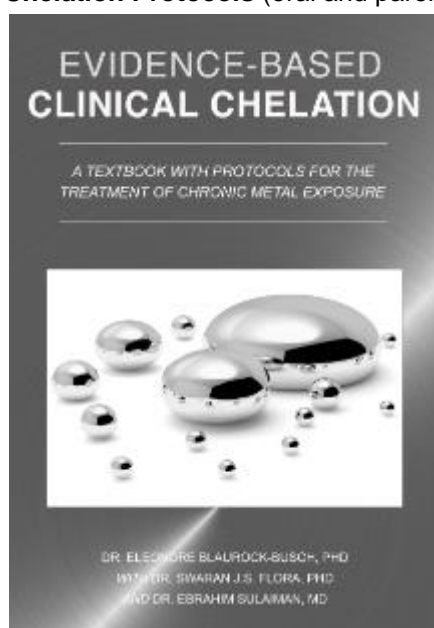
Overhydration results in a lowering of the urine crea-value. When two chelators are infused separately (using two infusion bottles) during one chelation session, hydration is considerable. We evaluated the creatinine value of such combination treatments and noted an average urine crea-value of 0.38 g/l. The standard deviation was 0.36 g/l. In a number of samples, the urine crea-value was below 0.3 g/l. This reflects overhydration and a considerable dilution effect.

Comparison of Provocation Test Results

We provide Comparison Reports. For a reliable comparison, certain precautions must be taken:

1. The amount and administration of the respective chelating agent should be the same.
2. The fluid intake should be the same.
3. The urine collection period should be the same.

Chelation Protocols (oral and parenteral)



A Textbook with Protocols for the Treatment of Chronic Metal Exposure

Size	Softcover DIN A4, 120 pages
ISBN Print	9783750428676
	€ 35.00
Print book price	(about US\$ 40.00, depending on exchange rate)
ISBN eBook	9783750458109
	€ 19.99
eBook price:	(about US\$ 21.50, depending on exchange rate)

<https://www.bod.de/buchshop/evidence-based-clinical-chelation-dr-eleonore-blaurock-busch-phd-9783750428676>

<https://www.amazon.de/dp/3750428670>



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Water: The upper limit, which the German Drinking Water Ordinance and the WHO (World Health Organization) have set for chromium, is 50 µg/l (= 0.05 mg/l). Of 579 water samples that came from different regions of Germany, none of the measured values exceeded this limit.

More information on Chromium and other metals can be found here:

<https://microtraceminerals.com/en/the-toxicity-of-metals>

■ Rare Earth Elements

The addition of the newest spectrometer allows us to reliably detect a number of rare earth elements. Indium, iridium and lanthanum are now included in our analytical spectrum. These elements are also used medicinally. Lanthanum, for instance, is used therapeutically as a phosphate binder.

Medical Workshops and Conferences

■ International Conferences & Workshops 2024

At the moment we do not have any workshops planned or scheduled.

If you are interested in workshops on environmental issues, chelation, laboratory testing or metal toxicology, check our website:

<https://microtraceminerals.com/en/workshops-and-seminars>

■ Webinars

At the moment we do not have any webinars planned or scheduled.

For registration and further information, please visit:

<https://www.edudip.com/academy/e.blaurock-busch>



We wish you a wonderful time.

Happy Easter!

And all the best

Your

E. Blaurock-Busch and Team