

Total Micronutrient (DBS)

This is a whole blood test available on dried blood spot (DBS) collection. This test includes whole blood measures of the following analytes:

Vitamins

Vitamin A
 Vitamin B1
 Vitamin B2
 Vitamin B3
 Vitamin B6
 Vitamin B5
 Vitamin C
 Vitamin D3
 Vitamin E
 Vitamin K1
 Vitamin K2
 Folate

Minerals

Calcium
 Manganese
 Zinc
 Copper
 Chromium
 Iron
 Magnesium
 Copper to Zinc Ratio

Amino Acids

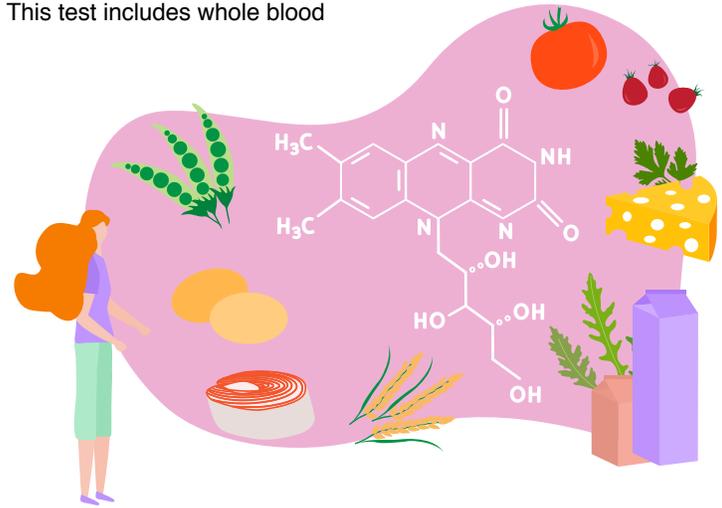
Asparagine
 Glutamine
 Serine
 Arginine
 Citrulline
 Isoleucine
 Valine
 Leucine

Metabolites

Choline
 Inositol
 Carnitine
 MMA

Antioxidants

Coenzyme Q10
 Cysteine
 Glutathione
 Selenium



Technology and Clinical Utility

- The Vibrant Total Micronutrient (DBS) is a convenient and efficient test for measuring whole blood levels of a wide variety of micronutrients. By using whole blood collection, we are able to provide an accurate pooled measurement of levels of the micronutrients in extra- and intracellular spaces.
- The test is performed using the gold standard of mass spectrometry, after extracting the specimen from the dried blood card using a patented and proprietary elution buffer coupled with a dilution buffer, for enhanced specimen volume collection and accuracy.



Advantages of the Total Micronutrient (DBS) include:

- 💡 **Ease of sample collection** - can be done at home by patients
- 💡 **Accuracy of results** - mass spectrometry is the gold standard of direct micronutrient measurement
- 💡 **Affordability** - with no phlebotomy costs associated, and longer sample stability times, additional collection and handling costs are eliminated
- 💡 **Complements telehealth practices** - no need for patients to come to you or leave their home for a blood draw. Collection kits can be shipped directly to patients.

