

Patient Information	Specimen Information	Client Information

**Micronutrients**

Test Name	In Range	Out of Range	Reference Range	Population Distribution	Population Percentile	Historical Result
<b>MINERAL/ELEMENT</b>						
MANGANESE, BLOOD Lab :	9.2		4.2-16.5 mcg/L		40.0%	

PERFORMING SITE:

SPECIMEN:

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**Comments****Analyte Name**

MANGANESE, BLOOD

Manganese helps form bones and helps metabolize amino acids, cholesterol, and carbohydrates. A clinical deficiency may cause growth disorders, alters skeletal and cartilage formation and impairs reproduction.

For more information, visit <https://ods.od.nih.gov/factsheets/Manganese-HealthProfessional/>

This test was developed and its analytical performance characteristics have been determined by Quest Diagnostics Nichols Institute, Chantilly, VA. It has not been cleared or approved by the FDA. This assay has been validated pursuant to the CLIA regulations and is used for clinical purposes.

**End Notes:****Population Distribution Interpretation:**

Quest population data from 1/1/2020 to 3/16/2021 was used to build the population distribution curves. The x-axis represents the biomarker result value and the y-axis represents the patient kernel density estimate, which is a smoothed version of the histogram.

Solid grey lines represent reference interval cutoffs. A data point at the extent of the x-axis may represent a value below/above the lower/upper limits of the x-axis range.

The population percentile indicates where a patient's result is relative to the whole population. For example, a patient result labeled as 45th percentile means 45% of the population has a test result lower than this resulted value.

**PERFORMING SITE:**

SPECIMEN: