

**Homocysteine (serum) :**

**9.2 (μmol/L)**

**Age: 48**

## Reference Ranges\*:

Normal (μmol/L)	Mildly Elevated (μmol/L)	Moderately Elevated (μmol/L)	Severely Elevated (μmol/L)
<b>&lt; 15.0</b>	<b>15.0 - 30.0</b>	<b>30.0 - 60.0</b>	<b>&gt; 60.0</b>

\* The reference ranges represent a mean value based on recommendations in literature (see references).

## Result Comment:

Elevated homocysteine levels are associated with coronary artery disease, stroke, aortic aneurysm, atherosclerosis, deep vein thrombosis, schizophrenia, depression, dementia, autoimmune diseases, hypothyroidism, kidney diseases, and others.

## References:

Moll S., et al.: Homocysteine and MTHFR Mutations. Circulation. 132:e6-e9, 2015.

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Rasmussen K., et al.: Age- and gender- specific reference intervals for total homocysteine and methylmalonic acid in plasma before and after vitamin supplementation. Clinical Chemistry 42:4, 630-636, 1996.

Faure – Delanef L., et al.: Methylenetetrahydrofolate Reductase Thermolabile variant and Human Longevity. Am. J. Hum. Genet., 60:999 -1001, 1997.

M.R Nehler, L.M Taylor Jr, J.M Porter. Homocysteinemia as a risk factor for atherosclerosis: a review. Cardiovascular Surgery, Volume 5, Issue 6, December, Pages 559–567, 1997