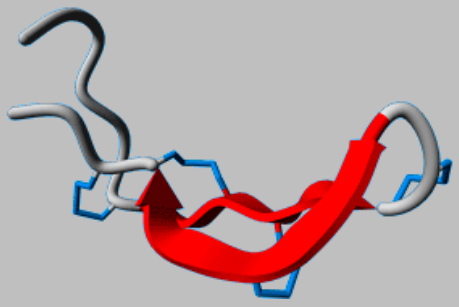
Hepcidinanalysis.com
service in mass spectrometry



Reference values for serum Hepcidin-25 during pregnancy

Reference ranges for serum hepcidin (nM) in specified time periods during pregnancy[1] as measured by weak cation exchange time-of-flight mass spectrometry (WCX-TOF MS)[2,3] . All values are determined using our recently developed secondary reference material for hepcidin assays, which value is assigned by a primary reference material, allowing traceability to the internationally recognized Système International[4]. Results for heparine plasma, EDTA plasma, citrate plasma and serum do not differ from each other.

Gestation			**95 % reference range**	
weeks	N	Median	P2.5	P97.5
7-15	22	2.0	< 0.5	9.1
19-25	21	< 0.5	< 0.5	7.2
29-35	16	< 0.5	< 0.5	2.5

References

[1] van Santen S, Kroot JJ, Zijderveld G, Wiegerinck ET, Spaanderman ME, Swinkels DW. The iron regulatory hormone hepcidin is decreased in pregnancy: a prospective longitudinal study. *Clin Chem Lab Med* 2012; **14**: 1-7.

[2] Laarakkers CM, Wiegerinck ET, Klaver S, Kolodziejczyk M, Gille H, Hohlbaum AM, Tjalsma H, Swinkels DW. Improved mass spectrometry assay for plasma hepcidin: detection and characterization of a novel hepcidin isoform. *PLoS ONE* 2013; **10**: e75518.

[3] Kroot JJ, Laarakkers CM, Geurts-Moespot AJ, Grebenchtchikov N, Pickkers P, van Ede AE, Peters HP, van Dongen-Lases E, Wetzels JF, Sweep FC, Tjalsma H, Swinkels DW. Immunochemical and mass-spectrometry-based serum hepcidin assays for iron metabolism disorders. *Clin Chem* 2010; **56**: 1570-1579.

[4]Diepeveen LE *et al*. Provisional standardization of hepcidin assays: creating a traceability chain with a primary reference material, candidate reference method and a commutable secondary reference material. *Clin Chem Lab Med*. 2018, Nov **29**.

Hepcidinanalysis.com, Geert Grooteplein 10 (830), 6525 GA Nijmegen, The Netherlands