

Coefficient of Variation for Tests

Immulite 2000 Coefficient of Variation 2009			ELISA Coefficient of variation 2009		
ANALYTE	INTRA(%)	INTER(%)	ANALYTE	INTRA(%)	INTER(%)
ACTH	7.7	8.5	FFA	4.6	7.7
Androstendione	6.4	7.7	hsIL6	2.7	10.9
IGFBP3	3.1	6.4	ADIPONECTIN	3.1	10.1
CORTISOL	3.1	7.7	VCAM	2.0	7.6
c-Peptide	2.0	3.5	ICAM	2.7	8.7
DHEAS	6.0	7.4	E-SELECTIN	6.8	10.9
Estradiol	7.0	5.4	VEGF	2.7	6.4
FSH	4.5	6.8	Leptin	5.1	10.1
Free T4	4.7	7.1	hs Leptin	2.6	3.8
GH	3.3	6.4	hsTNFa	5.2	13.0
HOMOCYSTEINE	4.0	7.1	hsIL10	4.7	12.0
hsCRP	1.6	3.3	hsIL1b	6.7	8.9
IGF1	2.8	5.6	salivary cortisol	3.5	9.6
IL- 6 IMMULITE	3.6	NA			
INSULIN	3.5	5.6			
Luteinizing Hormone	4.2	6.2			
Progesterone	6.6	8.4			
Prolactin	2.1	5.8			
iPTH	4.7	7.6			
Pyrilinks-D	6.4	8.1			
SHBG	6.2	6.2			
Testosterone	6.8	9.6			
TSH	3.9	7.6			
Total T3	7.3	9.5			
Total T4	4.4	8.6			
TU	3.0	3.6			

Multiplex Cytokine Panel Validation (R&D Systems Kit)

<u>Assay</u>	<u>Intra- Assay Precision (%CV)</u>	<u>Functional Sensitivity</u>	<u>Assay Linear Range</u>
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IL-1Beta	3.4%	2.5pg/ml	2.5 - 1,850pg/ml
IL-2	5.9%	3.2pg/ml	3.2 - 2,350pg/ml
IL-6	5.3%	5.5pg/ml	5.5 - 4,000pg/ml
IL-8	5.6%	4.5pg/ml	4.5 - 3,300pg/ml
IL-10	4.0%	3pg/ml	3 - 2,250pg/ml
TNF Alpha	5.8%	5.3pg/ml	5.3 - 3,900pg/ml
MCP-1	3.1%	9.9pg/ml	9.9 - 2,400pg/ml
RANTES	4.1%	16pg/ml	16 - 3,900pg/ml
IL-4	4.5%	10.6pg/ml	10.6 - 2,575pg/ml
MIP-1	5.7%	49pg/ml	49 - 12,000pg/ml
VEGF	4.70%	3.6pg/ml	3.6 - 2,650pg/ml

Summary:

Sensitivity remains a problem for half of the analytes in the panel, including IL-1b, IL-2, IL-4, IL-6, IL-10 and TNF alpha