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**PRODUCT DATA SHEET**

**MASS SPECT GOLD SERUM AND PLASMA  
ULTRA-LOW Vitamins**

innoME specializes in providing ultra-low analyte human serums for clinical laboratory testing for ultra-sensitive immunoassay and mass spectrometry. Contact us today and see why our Mass Spect Gold product line is the number one choice in vitamin depleted serum.

**MSG1000 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin D, Lipid Free**

Test	Specifications	Methodology
25-OH Vitamin D	≤ 1 ng/mL	LCMS
Vitamin D2	≤ 1 ng/mL	LCMS
Vitamin D3	≤ 1 ng/mL	LCMS
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG2000 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin D**

Test	Specifications	Methodology
25-OH Vitamin D	≤ 1 ng/mL	LCMS
Vitamin D2	≤ 1 ng/mL	LCMS
Vitamin D3	≤ 1 ng/mL	LCMS
Cholesterol	As Found	Enzymatic
Triglycerides	As Found	GPO

**MSG1300 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW BIOTIN (B7), LIPID FREE**

Test	Specifications	Methodology
Biotin (Vitamin B7)	< 100 pg/mL	Bioassay
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG1500 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW VITAMIN A, LIPID FREE**

Test	Specifications	Methodology
Vitamin A	< 5 µg/dL	Liquid Chromatography
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG1600 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW VITAMIN K, LIPID FREE**

Test	Specifications	Methodology
Vitamin K	< 0.1 nmol/L	HPLC
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG1800 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin A, D, & E, LIPID FREE**

Test	Specifications	Methodology
Vitamin A	< 5 µg/dL	Liquid Chromatography
25-OH Vitamin D	≤ 1 ng/mL	LCMS
Vitamin E -α- tocopherol	< 0.5 mg/L	HPLC
Vitamin E -γ- tocopherol	< 0.2 mg/L	HPLC
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG1900 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin A, E, & K, LIPID FREE**

Test	Specifications	Methodology
Vitamin A	< 5 µg/dL	Liquid Chromatography
Vitamin K	< 0.1 nmol/L	HPLC
Vitamin E -α- tocopherol	< 0.5 mg/L	HPLC
Vitamin E -γ- tocopherol	< 0.2 mg/L	HPLC
Cholesterol	< 10 mg/dL	Enzymatic
Triglycerides	< 10 mg/dL	GPO

**MSG1916 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin B6, LIPID FREE**

Test	Specifications	Methodology
Sodium	131 – 151 mmol/L	ISE
Potassium	3.5 – 5.5 mmol/L	ISE
Chloride	85 – 108 mmol/L	ISE
Total Protein	4.8 – 5.5 g/dL	Biuret
Cholesterol	≤ 10 mg/dL	Enzymatic
Triglycerides	≤ 10 mg/dL	GPO
Vitamin B6	< 5.0 nmol/L	LC-MS/MS
pH	7.0 – 7.5	pH Meter

**MSG1917 MASS SPECT GOLD HUMAN SERUM,  
ULTRA-LOW Vitamin B1, LIPID FREE**

Test	Specifications	Methodology
Sodium	131 – 151 mmol/L	ISE
Potassium	3.5 – 5.5 mmol/L	ISE
Chloride	85 – 108 mmol/L	ISE
Total Protein	4.8 – 5.5 g/dL	Biuret
Cholesterol	≤ 10 mg/dL	Enzymatic
Triglycerides	≤ 10 mg/dL	GPO
Vitamin B1	< 2.0 nmol/L	LC-MS/MS
pH	7.0 – 7.5	pH Meter

**MASS SPECT GOLD GLOBAL REFERENCES**

Product	Description	Preservative
MSG 11000M	Males Age 20 – 50 Serum	None
MSG 1100F	Females Age 20 – 50 Serum	None
MSG 11500M	Males K2 EDTA Plasma	None
MSG 11500F	Females K2 EDTA Plasma	None