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- ◆ *Mass Spect Gold Human Matrices*
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- ◆ *Protein Fractions*
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**MASS SPECT GOLD
SERUM & PLASMA**

ULTRA-LOW VITAMINS

Golden West Diagnostics, LLC. (GWD) – est. 2015. As a subsidiary of Golden West Biologicals, Inc (GWB), GWD is rooted in over 30 years of industry experience. GWD specializes in genuine human matrices used in the preparation for standards and controls for mass spectrometry and immunoassay applications. At GWD, we offer solutions to meet customers unique requirements. Our products are of the highest quality.

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MASS SPECT GOLD SERUM AND PLASMA ULTRA-LOW VITAMINS

Golden West Diagnostics 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	HPLC
pH	7.0 – 7.5	pH Meter

MASS SPECT GOLD GLOBAL REFERENCES

PRODUCT	DESCRIPTION	PRESERVATIVE
MSG 11000M	Males Age 20-50 Serum	None
MSG 11000F	Females Age 20-50 Serum	None
MSG 11500M	Males K2 EDTA Plasma	None
MSG 11500F	Females K2 EDTA Plasma	None