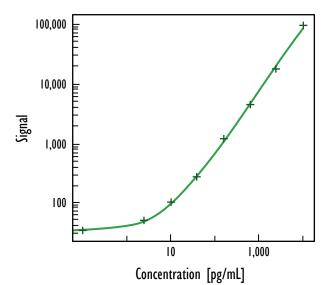
# MULTI-ARRAY® Human Macrophage Colony Stimulating Factor Ultra-Sensitive Assay

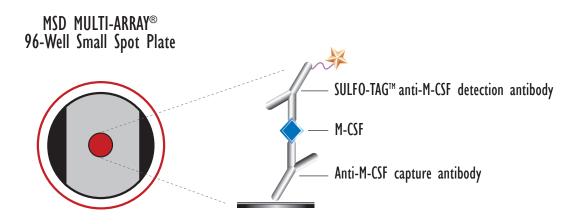
Detection of Macrophage Colony Stimulating Factor (M-CSF) in Human Serum and Plasma Samples

## Typical Standard Curve Data



Human M-CSF		
Concentration (pg/mL)	Mean Signal	
0	35	
2.4	52	
9.8	106	
39	283	
156	1,235	
625	4,658	
2,500	18,574	
10,000	98,358	

Standard curve data is from a representative experiment



## **Typical Detection Parameters**

Protocol	LLOD (pg/mL)
Serum and Plasma	6.1

 $\frac{\text{Definition of Detection Parameters}}{\text{LLOD} = \text{Lower Limit of Detection is}}$ 2.5 stdev above the background

Kit Size	Catalog Number
l plate	K1511QC-1
l plate 5 plates	K1511QC-2
20 plates	K1511QC-3
20 plates (Base)	K1511QC-3



# MULTI-ARRAY® Human Macrophage Colony Stimulating Factor Ultra-Sensitive Assay

Detection of Macrophage Colony Stimulating Factor (M-CSF) in Human Serum and Plasma Samples

### Spike Recovery

	Spike Level (pg/mL)	% Recovery of Spiked Calibrator
Serum	39	113%
	156	109%
	625	100%
EDTA Plasma	39	115%
	156	119%
	625	111%
Heparin Plasma	39	114%
	156	115%
	625	106%

- Measured analyte spiked into neat human samples
- % recovery = (measured value \* 100)

expected value

#### **Dilution Linearity**

	Dilution Factor	% Recovery of Dilution Linearity
Serum	1/2	121%
	1/4	102%
	1/8	102%
EDTA Plasma	1/2	104%
	1/4	112%
	1/8	117%
Heparin Plasma	1/2	97%
	1/4	108%
	1/8	112%

- Serum and plasma samples were diluted in HSC Assay Diluent prior to assay
- % recovery = (measured value \* dilution factor \* 100) predicted value

### Endogenous Levels of Human M-CSF

	pg/mL	Endogenous Analyte Levels
	Mean	68
Serum	Median	60
	Range	35 - 132
EDTA Plasma	Mean	81
	Median	52
	Range	26 - 181
Heparin Plasma	Mean	79
	Median	64
	Range	37 - 146

- 8 normal human donors; matched sera and plasmas
- Detected level was above limit of quantitation (LOQ) for all analytes in all samples
- Average % CV for measured samples was less than 7%

