# PLEX® Human VEGF-D

instrument compatibility.

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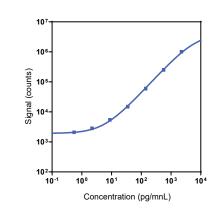
www.mesoscale.com®	Product Options	Catalog Number Description	
	Multiplex	K151AEM, K251AEM	U-PLEX Immuno-Oncology Group 1 (human)
Ordering Information MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ mesoscale.com	Singleplex	K151C8K-1/-2/-4	U-PLEX Human VEGF-D Assay with SECTOR <sup>™</sup> plates
		K151C8K-21/-22/-24	U-PLEX Human VEGF-D Assay with QuickPlex® plates
		K251C8K-2/-4	U-PLEX Human VEGF-D Assay with 384-well plates
	Antibody Set	B22C8-2/-3	U-PLEX Human VEGF-D Antibody Set
	Protocol	U-PLEX Product Inserts are available at <u>www.mesoscale.com</u>	

Scientific Support Phone: 1-240-314-2798 Email: ScientificSupport@ mesoscale.com

## **Company Address**

MESO SCALE DISCOVERY® A division of Meso Scale Diagnostics, LLC. 1601 Research Boulevard Rockville, MD 20850-3173 USA

# **Representative Calibration Curve and Sensitivity**



Assay	Median LLOD (pg/mL)	LLOD Range (pg/mL)	
VEGF-D	0.30	0.22-0.76	

The Calibrator curve was fitted with a 4-parameter logistic model with a 1/Y<sup>2</sup> weighting. The lower limit of detection (LLOD) is a calculated concentration corresponding to 2.5 standard deviations above the background (zero Calibrator).

The U-PLEX® platform was designed to provide ultimate flexibility for detection of biomarkers in a wide variety of sample types. This datasheet

provides the representative performance of the U-PLEX Human VEGF-D Assay tested on U-PLEX 96-well SECTOR plates run as a multiplex. The

data do not represent the product specifications. Under your experimental conditions, the assay may perform differently from the representative

data. U-PLEX assays are offered in either singleplex or multiplex; both are available on 96- or 384-well plates. See a U-PLEX product insert for

#### Precision

Control	Average Conc. (pg/mL)	Average Intra-run Conc. (%CV)	Inter-run Conc. (%CV)
High	280	3.8	6.8
Mid	51	5.1	13.7
Low	9.6	7.0	16.6

Controls were made by spiking Calibrator into assay diluent at 3 levels within the quantitative range of the assay. Average intra-run concentration %CV is the average %CV of the control replicates within an individual run. Inter-run concentration %CV is the variability of controls across multiple runs.

For Research Use Only. Not for use in diagnostic procedures.





# MSD® U-PLEX Human VEGF-D

# Tested Samples

Sample Type	Serum (N=10)	EDTA Plasma (N=10)	Normal Lysate (N=5)	Tumor Lysate (N=5)
Median (pg/mL)	2,630	2,070	15	2.9
Range (pg/mL)	510-5,250	883-3,830	ND-38	ND-4.6
% Detected	100	100	80	60

Normal serum and plasma samples were diluted 4-fold prior to the assay. Lysates were tested at a protein concentration of 0.5 mg/mL. ND = non-detectable (<LLOD)

# **Dilution Linearity**

Serum			EDTA Plasma		
Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution Average % Recovery		% Recovery Range
2	95	91 - 98	2	95	90 - 98
8	101	99 - 103	8	101	98 - 103
16	99	96 - 101	16	97	90 - 103

Normal human serum and EDTA plasma were spiked with Calibrator and tested at different dilutions. Percent recovery at each dilution level was normalized to the dilutionadjusted, 4-fold concentration. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

% Recovery = (measured concentration / expected concentration) x 100

### Spike Recovery

	Ser	um	EDTA F	Plasma
Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range
High	102	100 - 105	102	98 - 105
Mid	102	98 - 106	104	101 - 107
Low	103	96 - 109	102	98 - 105

Normal serum and plasma were spiked with Calibrator at 3 levels. Spiked samples were diluted 4-fold to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

% Recovery = (measured concentration / expected concentration) x 100

# Specificity

The VEGF-D Antibody Set was tested for nonspecific binding against all of the analytes in the Immuno-Oncology Group 1 and the majority of analytes in Biomarker Group 1. Any cross-reactivity greater than 2.0% is noted below. The U-PLEX Assay Designer shows all of the compatible assays.

% Nonspecificity = (nonspecific signal / specific signal) x 100

# **Diluent Compatibility**

Diluents 58 and 3 are provided when this is ordered in singleplex and multiplex assays.

# Assay Components

**Calibrator:** VEGF-D is included in Calibrator 21. The human VEGF-D Calibrator is VEGF-D (93–201) expressed in an insect cell line. **Antibodies:** The U-PLEX Human VEGF-D Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection. **Assay generation:** B

Note: This datasheet contains representative assay performance data. In custom multiplex formats, the assay may perform differently from the representative data shown.

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