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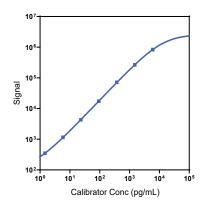
Company Address

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

Product Options	Catalog Number	Description			
Multiplex	K15068M, K25068M	U-PLEX Biomarker Group 1 (NHP)			
Singleplex	K156UFK-1/-2/-4	U-PLEX NHP IP-10 Assay with SECTOR™ plates			
	K156UFK-21/-22/-24	U-PLEX NHP IP-10 Assay with QuickPlex® plates			
	K256UFK-2/-4	U-PLEX NHP IP-10 Assay with 384-well plates			
Antibody Set	B21UF-2/-3	U-PLEX Human IP-10 Antibody Set			
Assay Protocol	U-PLEX Product Inserts are available at www.mesoscale.com				

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 NHP IP-10 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 in 96- or 384-well plates. See a U-PLEX product insert for instrument compatibility.

Representative Calibration Curve and Sensitivity



Assay	Median LLOD (pg/mL)	LLOD Range (pg/mL)		
IP-10	0.24	0.17-0.31		

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

Precision

_	Control	Average Conc. (pg/mL)	Average Intra-run Conc. %CV	Inter-run Conc. %CV
IP-10	High	3,580	5.9	14.4
	Mid	391	4.7	11.3
	Low	42.4	3.9	13.1

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

MSD® U-PLEX NHP IP-10

Spike Recovery

		Serum (N=5)		Plasma (N=5)		Cell Culture Media (N=5)	
	Spike Level	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range	Average % Recovery	% Recovery Range
Ouncestation	High	85.5	74-90	83.7	70-93	89	82-98
Cynomolgus Monkey	Mid	89.1	77-91	85.9	79-88	87	79-104
Wiorikey	Low	96.7	88-101	95.7	92-97	84	72-97
Dhaana	High	91.2	79-94	96.1	87-100	89	82-98
Rhesus Monkey	Mid	87.5	73-94	95.5	88-96	87	79-104
Willing	Low	95.9	87-98	1005	93-118	84	72-97

Normal serum, EDTA plasma, and cell culture media were spiked with Calibrator at 3 levels. Undiluted samples were tested to determine the expected concentration of the analyte. Samples may benefit from additional dilution with assay diluent to reduce matrix effects.

Tested Samples

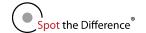
_	Sample Type	Serum (N=10)	Plasma (N=10)	Spiked Serum (N=5)	
Cynomolgus Monkey	Median (pg/mL)	220	209	600	
	Range (pg/mL)	52.3-968	88.1-683	293-985	
	% Detected	100	100	100	
Rhesus Monkey	Median (pg/mL)	91.6	234	4,730	
	Range (pg/mL)	44.2-279	63.9-327	3,840-6,470	
	% Detected	100	100	100	

Normal serum and plasma samples were diluted 2-fold prior to the assay.

Dilution Linearity

	Serum (N=5)			Plasma (N=5)			Cell Culture Media (N=5)		
	Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range	Fold Dilution	Average % Recovery	% Recovery Range
Ounemalaus	2	111	106-120	2	120	116-124	2	116	113-117
Cynomolgus Monkey	4	121	112-135	4	127	121-133	4	120	115-124
Workey	8	125	115-143	8	133	127-140	8	116	112-122
Dhaarra	2	117	112-120	2	102	98-107	2	116	113-117
Rhesus Monkey	4	126	118-133	4	107	102-115	4	120	115-124
	8	127	116-133	8	106	101-109	8	116	112-122

Normal serum, EDTA plasma, and cell culture media were spiked with Calibrator and tested at different dilutions. Undiluted samples were tested 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

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MSD U-PLEX NHP IP-10

Specificity

To assess specificity, the IP-10 Antibody Set was tested individually against a larger panel of recombinant human analytes for nonspecific binding (CTACK, Eotaxin, Eotaxin-2, Eotaxin-3, ENA-78, FLT3L, Fractalkine, G-CSF, GM-CSF, GRO-α, I-309, IFN-α2a, IFN-γ, IL-1α, IL-1β, IL-1RA, IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17A/F, IL-17B, IL-17C, IL-17D, IL-17F, IL-18, IL-22, IL-23, IP-10, I-TAC, MCP-1, MCP-2, MCP-3, MCP-4, M-CSF, MDC, MIF, MIP-1α, MIP-1β, MIP-3α, MIP-3β, MIP-5, SDF-1α, TARC, TNF-α, TNF-β, TPO, TRAIL, VEGF-A, and YKL-40). Nonspecific binding was less than 0.5%.

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

Diluent Compatibility

Diluents 57 and 3 are provided with this assay. MSD offers a range of assay and antibody diluents for separate purchase. Depending on your assay needs, other diluents may be tested.

Assay Components

Calibrator: IP-10 is included in Calibrator 2. The full-length recombinant protein is expressed in E. coli.

Antibodies: The U-PLEX NHP IP-10 Assay uses a mouse monoclonal antibody for capture and a mouse monoclonal antibody for detection.

Assav generation: B

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



MESO SCALE DISCOVERY, Meso Scale Diagnostics, www.mesoscale.com, MSD, MSD (design), QuickPlex, SECTOR, U-PLEX, U-PLEX (design), 96 WELL SMALL-SPOT (design), and Spot the

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