

NHP IL-8



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Ordering Information

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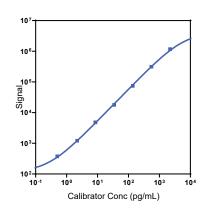
Company Address

MESO SCALE DISCOVERY®
A division of
Meso Scale Diagnostics, LLC.
1601 Research Boulevard
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Product Options	Catalog Number	Description			
Multiplex	K15068M, K25068M	U-PLEX Biomarker Group 1 (NHP)			
Singleplex	K156TYK-1/-2/-4	U-PLEX NHP IL-8 Assay with SECTOR™ plates			
	K156TYK-21/-22/-24	U-PLEX NHP IL-8 Assay with QuickPlex® plates			
	K256TYK-2/-4	U-PLEX NHP IL-8 Assay with 384-well plates			
Antibody Set	B21TY-2/-3	U-PLEX Human IL-8 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 IL-8 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)		
IL-8	0.08	0.07-0.11		

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
	High	847	2.8	4.6
IL-8	Mid	83.1	2.8	7.4
	Low	8.5	3.5	11.6

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 IL-8

Spike Recovery

	Spike Average % Recovery Range		n (N=5)	Plasma	a (N=5)	Cell Culture Media (N=5)		
			Average % % Recovery Recovery Range		Average % % Recover Recovery Range			
Cynomolgus Monkey	High	95	85-101	93	22-119	128	122-133	
	Mid	97	91-103	92	22-115	126	123-130	
	Low	98	89-107	90	21-110	132	126-136	
Rhesus Monkey	High	106.6	96-116	104	97-119	128	122-133	
	Mid	101.6	94-113	102	91-112	126	123-130	
	Low	101	84-115	100	92-110	132	126-136	

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

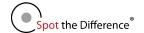
	Sample Type	Serum (N=10)	Plasma (N=10)	Spiked Serum (N=5)
0	Median (pg/mL)	0.38	NA	1.96
Cynomolgus Monkey	Range (pg/mL)	ND-9.0	NA	0.43-3.72
	% Detected	70	0	100
Rhesus Monkey	Median (pg/mL)	0.11	ND	3.25
	Range (pg/mL)	ND-2.50	ND-0.11	0.79-8.06
	% Detected	70	10	100

Normal serum and plasma samples were diluted 2-fold prior to the assay. ND = not detectable (<LLOD); NA = not applicable due to 0% detected

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
Omemelane	2	102	87-119	2	113	100-148	2	94	90-96
Cynomolgus Monkey	4	104	93-119	4	122	98-192	4	92	86-97
	8	102	90-125	8	133	100-252	8	85	78-93
Rhesus Monkey	2	96	64-112	2	104	96-109	2	94	90-96
	4	107	97-118	4	106	96-111	4	92	86-97
	8	106	96-113	8	106	92-113	8	85	78-93

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 IL-8

Specificity

To assess specificity, the IL-8 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: IL-8 is included in Calibrator 1. The full-length recombinant protein is expressed in E. coli.

Antibodies: The U-PLEX NHP IL-8 Assay uses a mouse monoclonal antibody for capture and a goat polyclonal 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.



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