)-PLEX® NHP I-309

MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ mesoscale.com

Scientific Support

Phone: 1-240-314-2798

Email: ScientificSupport@

Company Address Meso Scale Discovery A division of

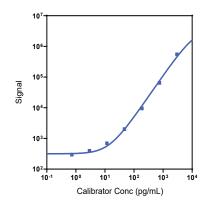
Meso Scale Diagnostics, LLC. 1601 Research Boulevard Rockville, MD 20850-3173 USA

mesoscale.com

| | Product Options | Catalog Number | Description | | |
|---|-----------------|--|---|--|--|
| www.mesoscale.com® Ordering Information MSD Customer Service Phone: 1-240-314-2795 Fax: 1-301-990-2776 Email: CustomerService@ | Multiplex | K15068M, K25068M | U-PLEX Biomarker Group 1 (NHP) | | |
| | | K156UYK-1/-2/-4 | U-PLEX NHP I-309 Assay with SECTOR [™] plates | | |
| | Singleplex | K156UYK-21/-22/-24 | U-PLEX NHP I-309 Assay with QuickPlex Ultra [™] plates | | |
| | | K256UYK-2/-4 | U-PLEX NHP I-309 Assay with 384-well plates | | |
| | Antibody Set | B21UY-2/-3 | U-PLEX Human I-309 Antibody Set | | |
| | Assay Protocol | U-PLEX Product Inserts are available at <u>www.mesoscale.com</u> | | | |

The MESO SCALE DISCOVERY[®] 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 I-309 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) | | |
|-------|------------------------|-----------------------|--|--|
| I-309 | 6.8 | 6.4-7.7 | | |

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 | 467 | 5.1 | 9.3 | | |
| I-309 | Mid | 247 | 5.3 | 12.1 | | |
| | Low | 115 | 5.0 | 12.9 | | |

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.

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 |
| 0 | High | 64 | 53-68 | 49 | 37-60 | 53 | 46-64 |
| Cynomolgus Monkey | Mid | 66 | 56-73 | 52 | 38-66 | 64 | 58-71 |
| | Low | 67 | 63-72 | 46 | 32-61 | 78 | 70-88 |
| Rhesus Monkey | High | 53 | 42-59 | 52 | 48-56 | 53 | 46-64 |
| | Mid | 62 | 52-73 | 57 | 54-60 | 64 | 58-71 |
| | Low | 56 | 48-72 | 66 | 62-74 | 78 | 70-88 |

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.

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

Tested Samples

| | Sample Type | Serum (N=11) | Plasma (N=11) | Cell Culture Media (N=10) | |
|----------------------|----------------|-----------------|------------------|------------------------------|--|
| 0 m a m a l mua | Median (pg/mL) | 31 | 28 | 14 | |
| Cynomolgus Monkey | Range (pg/mL) | 23-38 | 19-35 | ND-25 | |
| | % Detected | 100 | 100 | 70 | |
| Rhesus Monkey | Median (pg/mL) | 30 | 31 | 19 | |
| | Range (pg/mL) | 8.1-34 | 28-45 | 11-36 | |
| | % Detected | 100 | 100 | 100 | |

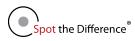
Normal serum and plasma samples were diluted 2-fold prior to the assay. ND = not detectable (<LLOD)

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 |
| Oursemalaus | 2 | 120 | 106-150 | 2 | 165 | 143-181 | 2 | 112 | 106-124 |
| Cynomolgus Monkey | 4 | 142 | 122-159 | 4 | 213 | 171-226 | 4 | 114 | 100-130 |
| | 8 | 169 | 162-182 | 8 | 256 | 198-284 | 8 | 119 | 100-137 |
| Rhesus Monkey | 2 | 130 | 121-137 | 2 | 126 | 117-133 | 2 | 112 | 106-124 |
| | 4 | 162 | 148-175 | 4 | 150 | 143-156 | 4 | 114 | 100-130 |
| | 8 | 189 | 168-210 | 8 | 190 | 173-214 | 8 | 119 | 100-137 |

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





Specificity

To assess specificity, the I-309 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- α 2a, IFN- γ , IL-1 α , IL-1 β , 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-1 α , MIP-1 β , MIP-3 α , MIP-3 β , MIP-5, SDF-1 α , 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: I-309 is included in Calibrator 10. The full-length recombinant protein is expressed in *E. coli*. **Antibodies:** The U-PLEX NHP I-309 Assay uses a mouse monoclonal antibody for capture and a rabbit polyclonal antibody for detection. **Assay 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 Ultra, SECTOR, U-PLEX, U-PLEX (design), 96 WELL SMALL-SPOT (design), and Spot the Difference are trademarks and/or service marks of Meso Scale Diagnostics, LLC. ©2016-2025 Meso Scale Diagnostics, LLC. All rights reserved.

