

**CERTIFICATE OF ANALYSIS****Product Description:** V-PLEX and V-PLEX Plus Proinflammatory Panel 1 (human) Kit**Lot Number:** K0082909**Expiration Date:** 31 JAN 2028**Catalog Number:** K15049-Series, K15052-Series, K15053-Series, K15056-Series, K151QR-Series, K151OD-Series, K15345-Series, K15348-Series, K15346-Series, K15349-Series, K156AR-Series**Lot-Specific Components:**

The kit expiration date provided in the COA is determined by the component with the earliest expiration date. As the kit is supplied with different catalog products, not all configurations include all the components. In such cases, the applicable expiration date is determined by the shortest expiry among the components included in the kit that is received.

| Description | Lot Number | Storage Temperature | Expiration Date |
|---|------------|--------------------------|-----------------|
| Anti-hu IFN- γ Antibody | D0082568 | 2-8°C | 30 JUN 2029 |
| Anti-hu IL-10 Antibody | D0082505 | 2-8°C | 31 JAN 2029 |
| Anti-hu IL-12p70 Antibody | D0082433 | 2-8°C | 31 AUG 2028 |
| Anti-hu IL-13 Antibody | D0082514 | 2-8°C | 28 FEB 2029 |
| Anti-hu IL-1 β Antibody | D0082512 | 2-8°C | 30 JUN 2029 |
| Anti-hu IL-2 Antibody | D0082528 | 2-8°C | 31 MAR 2029 |
| Anti-hu IL-4 Antibody | D0082441 | 2-8°C | 31 AUG 2028 |
| Anti-hu IL-6 Antibody | D0082569 | 2-8°C | 30 JUN 2029 |
| Anti-hu IL-8 Antibody | D0082504 | 2-8°C | 31 JAN 2029 |
| Anti-hu TNF- α Antibody | D0082515 | 2-8°C | 28 FEB 2029 |
| Proinflammatory Panel 1 (hu) 96-Well 10-Spot SECTOR Plate | Z0048242 | 2-8°C | 31 AUG 2028 |
| Proinflammatory Panel 1 (human) Calibrator Blend | A0080442 | 2-8°C | 31 AUG 2030 |
| Diluent 2 | M0020136 | $\leq -10^\circ\text{C}$ | 31 JAN 2028 |
| Diluent 3 | M0030147 | $\leq -10^\circ\text{C}$ | 31 MAY 2028 |

Additional components may be provided to execute the assay. Additional components are not lot-specific.

Precision, Accuracy, and Sensitivity Specifications:

| Spot | Name | Calibrator | | Proinflammatory Panel 1 (human) Control 1 | | Proinflammatory Panel 1 (human) Control 2 | | Proinflammatory Panel 1 (human) Control 3 | |
|------|---------------|------------|-------|---|-------|---|-------|---|-------|
| | | Recovery | CV | Recovery | CV | Recovery | CV | Recovery | CV |
| 1 | IFN- γ | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 2 | IL-1 β | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 3 | IL-2 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 4 | IL-4 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 5 | IL-6 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 6 | IL-8 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 7 | IL-10 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 8 | IL-12p70 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 9 | IL-13 | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |
| 10 | TNF- α | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% | 80% - 120% | < 20% |



CERTIFICATE OF ANALYSIS

| Spot | Name | LLOQ | | | ULOQ | | |
|------|---------------|-------|------------|-------|-------|------------|-------|
| | | Value | Recovery | CV | Value | Recovery | CV |
| 1 | IFN- γ | 1.76 | 80% - 120% | < 20% | 938 | 80% - 120% | < 20% |
| 2 | IL-1 β | 0.646 | 80% - 120% | < 20% | 375 | 80% - 120% | < 20% |
| 3 | IL-2 | 0.890 | 80% - 120% | < 20% | 938 | 80% - 120% | < 20% |
| 4 | IL-4 | 0.218 | 80% - 120% | < 20% | 158 | 80% - 120% | < 20% |
| 5 | IL-6 | 0.633 | 80% - 120% | < 20% | 488 | 80% - 120% | < 20% |
| 6 | IL-8 | 0.591 | 80% - 120% | < 20% | 375 | 80% - 120% | < 20% |
| 7 | IL-10 | 0.298 | 80% - 120% | < 20% | 233 | 80% - 120% | < 20% |
| 8 | IL-12p70 | 1.22 | 80% - 120% | < 20% | 315 | 80% - 120% | < 20% |
| 9 | IL-13 | 4.21 | 80% - 120% | < 20% | 353 | 80% - 120% | < 20% |
| 10 | TNF- α | 0.690 | 80% - 120% | < 20% | 248 | 80% - 120% | < 20% |

Non-Specific Binding Specifications:

| Spot | Name | Spec |
|------|---------------|-------|
| 1 | IFN- γ | <1.0% |
| 2 | IL-1 β | <1.0% |
| 3 | IL-2 | <1.0% |
| 4 | IL-4 | <1.0% |
| 5 | IL-6 | <1.0% |
| 6 | IL-8 | <1.0% |
| 7 | IL-10 | <1.0% |
| 8 | IL-12p70 | <1.0% |
| 9 | IL-13 | <1.0% |
| 10 | TNF- α | <1.0% |

Stock Concentration of Calibrator:

| Spot | Name | Conc. | Units |
|------|---------------|-------|-------|
| 1 | IFN- γ | 1600 | pg/mL |
| 2 | IL-1 β | 562 | pg/mL |
| 3 | IL-2 | 1510 | pg/mL |
| 4 | IL-4 | 245 | pg/mL |
| 5 | IL-6 | 730 | pg/mL |
| 6 | IL-8 | 557 | pg/mL |
| 7 | IL-10 | 348 | pg/mL |
| 8 | IL-12p70 | 457 | pg/mL |
| 9 | IL-13 | 517 | pg/mL |
| 10 | TNF- α | 346 | pg/mL |

Dilution to top of Curve: 1X

This product is intended for Research Use Only. Not for use in Diagnostic Procedures.

| | Name | Function | Signature | Date |
|-----------------|---------------|----------|-----------|-------------|
| Review/Approval | Karen Hamilla | Quality | | 22 APR 2026 |