

**CERTIFICATE OF ANALYSIS**

**Product Description:** S-PLEX Proinflammatory panel 1-3 and IL-12p70 (Mouse) Kit  
**Lot Number:** K00S0287  
**Expiration Date:** 30 NOV 2027  
**Catalog Number:** K15744S-Series, K15745S-Series, K15746S-Series, K152AEBS-Series, K152AEAS-Series, K152ADYS-Series, K152ADXS-Series, K152J3S-Series, K152ADUS-Series, K152AXKS-Series, K152ADVS-Series, K152ADWS-Series, K152ADZS-Series

**Lot-Specific Components:**

Description	Lot Number	Storage Temperature	Expiration Date
TURBO-BOOST Mouse IFN- $\gamma$ Antibody	D0TB0056	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-10 Antibody	D0TB0063	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-12p70 Antibody	D0TB0064	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-1 $\beta$ Antibody	D0TB0057	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-2 Antibody	D0TB0058	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-4 Antibody	D0TB0059	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-5 Antibody	D0TB0060	2-8°C	28 FEB 2029
TURBO-BOOST Mouse IL-6 Antibody	D0TB0061	2-8°C	28 FEB 2029
TURBO-BOOST Mouse KC/GRO Antibody	D0TB0062	2-8°C	28 FEB 2029
TURBO-BOOST Mouse TNF- $\alpha$ Antibody	D0TB0065	2-8°C	28 FEB 2029
Blocker S1	R0140017	$\leq -10^{\circ}\text{C}$	29 FEB 2028
Blocker S2	521328	$\leq -10^{\circ}\text{C}$	31 AUG 2030
S-PLEX Enhance E1	Y0550025	$\leq -10^{\circ}\text{C}$	30 NOV 2027
S-PLEX Enhance E2	Y0560024	$\leq -10^{\circ}\text{C}$	31 DEC 2027
S-PLEX Detect D1 with TURBO-TAG™ Reagent	Y0580035	$\leq -70^{\circ}\text{C}$	31 JAN 2028
S-PLEX Detect D2	Y0590027	$\leq -70^{\circ}\text{C}$	31 JAN 2028
S-PLEX Enhance E3	Y0570028	$\leq -70^{\circ}\text{C}$	31 JAN 2028
S-PLEX Proinflammatory Panel 1 (mouse) Calibrator Blend	A00S0142	$\leq -70^{\circ}\text{C}$	29 FEB 2028
S-PLEX Proinflammatory Panel 1 (mouse) Coating Solution	550587	$\leq -70^{\circ}\text{C}$	31 JAN 2029

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

**Precision, Accuracy, and Sensitivity Specifications:**

Spot Number	Name	Calibrator	
		Recovery	CV
1	IFN- $\gamma$	80% - 120%	< 20%
2	IL-1 $\beta$	80% - 120%	< 20%
3	IL-2	80% - 120%	< 20%
4	IL-4	80% - 120%	< 20%
5	IL-5	80% - 120%	< 20%
6	IL-6	80% - 120%	< 20%
7	KC/GRO	80% - 120%	< 20%
8	IL-10	80% - 120%	< 20%
9	IL-12p70	80% - 120%	< 20%
10	TNF- $\alpha$	80% - 120%	< 20%



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Name	LLOQ					LLOD	
	Range Tested	Observed	Units	Recovery	CV	Observed	Units
IFN- $\gamma$	2.25 - 535	5.80	fg/mL	75% - 125%	< 25%	1.84	fg/mL
IL-1 $\beta$	6.76 - 1610	18.7	fg/mL	75% - 125%	< 25%	7.19	fg/mL
IL-2	22.9 - 5450	34.6	fg/mL	75% - 125%	< 25%	17.0	fg/mL
IL-4	4.95 - 1180	6.70	fg/mL	75% - 125%	< 25%	1.77	fg/mL
IL-5	13.5 - 3210	19.4	fg/mL	75% - 125%	< 25%	6.52	fg/mL
IL-6	36.7 - 8720	53.1	fg/mL	75% - 125%	< 25%	19.6	fg/mL
KC/GRO	7.19 - 1710	21.2	fg/mL	75% - 125%	< 25%	6.19	fg/mL
IL-10	24.0 - 5710	69.3	fg/mL	75% - 125%	< 25%	19.9	fg/mL
IL-12p70	313 - 74300	429	fg/mL	75% - 125%	< 25%	197	fg/mL
TNF- $\alpha$	10.9 - 2600	32.5	fg/mL	75% - 125%	< 25%	8.22	fg/mL

## Stock Concentration of Calibrator:

Name	Item	Concentration	Units
IFN- $\gamma$	20X Calibrator	464000	fg/mL
IL-1 $\beta$	20X Calibrator	1496000	fg/mL
IL-2	20X Calibrator	5540000	fg/mL
IL-4	20X Calibrator	1072000	fg/mL
IL-5	20X Calibrator	3100000	fg/mL
IL-6	20X Calibrator	8500000	fg/mL
KC/GRO	20X Calibrator	1696000	fg/mL
IL-10	20X Calibrator	5540000	fg/mL
IL-12p70	20X Calibrator	68600000	fg/mL
TNF- $\alpha$	20X Calibrator	2600000	fg/mL

This lot meets MSD's non-specific binding specifications.

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

	Name	Function	Signature	Date
<b>Review/Approval</b>	Karen Hamilla	Quality		14 OCT 2025