



CERTIFICATE OF ANALYSIS

Product Description: S-PLEX Proinflammatory Panel 1 (human) Kit
Lot Number: K00S0302
Expiration Date: 31 JUL 2027
Catalog Number: K15396S-Series, K151AKV-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
S-PLEX Proinflammatory Panel 1 (human) Calibrator Blend	A00S0127	2-8°C	30 JUN 2030
TURBO-BOOST Human IFN- γ Antibody	D0TB0018	2-8°C	30 JUN 2028
TURBO-BOOST Human IL-10 Antibody	D0TB0012	2-8°C	31 MAY 2028
TURBO-BOOST Human IL-12p70 Antibody	D0TB0013	2-8°C	31 MAY 2028
TURBO-BOOST Human IL-17A Antibody	D0TB0019	2-8°C	30 JUN 2028
TURBO-BOOST Human IL-1 β Antibody	D0TB0017	2-8°C	31 MAY 2028
TURBO-BOOST Human IL-2 Antibody	D0TB0015	2-8°C	31 JUL 2028
TURBO-BOOST Human IL-4 Antibody	D0TB0014	2-8°C	31 MAY 2028
TURBO-BOOST Human IL-6 Antibody	D0TB0011	2-8°C	31 JUL 2028
TURBO-BOOST Human TNF- α Antibody	D0TB0016	2-8°C	31 JUL 2028
Blocker S1	R0140018	$\leq -10^{\circ}\text{C}$	30 APR 2028
Blocker S2	562164	$\leq -10^{\circ}\text{C}$	31 OCT 2030
Diluent 58	M0580015	$\leq -10^{\circ}\text{C}$	31 JUL 2027
S-PLEX Enhance E1	Y0550026	$\leq -10^{\circ}\text{C}$	31 JAN 2028
S-PLEX Enhance E2	Y0560026	$\leq -10^{\circ}\text{C}$	29 FEB 2028
S-PLEX Detect D1 with TURBO-TAG TM Reagent	Y0580035	$\leq -70^{\circ}\text{C}$	31 JAN 2028
S-PLEX Detect D2	Y0590028	$\leq -70^{\circ}\text{C}$	29 FEB 2028
S-PLEX Enhance E3	Y0570028	$\leq -70^{\circ}\text{C}$	31 JAN 2028
S-PLEX Proinflammatory Panel 1 (human) Coating Solution	568801	$\leq -70^{\circ}\text{C}$	30 JUN 2029

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



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Precision, Accuracy, and Sensitivity Specifications:

Spot Number	Name	Calibrator	
		Recovery	CV
1	IL-6	80% - 120%	< 20%
2	IL-10	80% - 120%	< 20%
3	IL-12p70	80% - 120%	< 20%
4	IL-4	80% - 120%	< 20%
5	TNF-a	80% - 120%	< 20%
6	IL-2	80% - 120%	< 20%
8	IL-1 β	75% - 125%	< 30%
9	IFN- γ	80% - 120%	< 20%
10	IL-17A	80% - 120%	< 20%

Name	Range Tested	LLOQ				LLOD	
		Observed	Units	Recovery	CV	Observed	Units
IL-6	3.42 - 814	16.4	fg/mL	80% - 120%	< 25%	12.5	fg/mL
IL-10	12.5 - 2980	25.4	fg/mL	80% - 120%	< 25%	12.6	fg/mL
IL-12p70	39.2 - 9320	249	fg/mL	80% - 120%	< 25%	50.5	fg/mL
IL-4	5.11 - 1220	25.2	fg/mL	80% - 120%	< 25%	14.4	fg/mL
TNF-a	5.39 - 1280	22.5	fg/mL	80% - 120%	< 25%	8.66	fg/mL
IL-2	8.75 - 2080	22.8	fg/mL	80% - 120%	< 25%	9.94	fg/mL
IL-1 β	16.0 - 3810	39.8	fg/mL	75% - 125%	< 30%	32.1	fg/mL
IFN- γ	3.75 - 890	13.9	fg/mL	80% - 120%	< 25%	6.06	fg/mL
IL-17A	19.2 - 4570	190	fg/mL	80% - 120%	< 25%	46.2	fg/mL

Stock Concentration of Calibrator:

Name	Item	Concentration	Units
IL-6	1X Calibrator	37800	fg/mL
IL-10	1X Calibrator	140000	fg/mL
IL-12p70	1X Calibrator	512000	fg/mL
IL-4	1X Calibrator	64100	fg/mL
TNF-a	1X Calibrator	57600	fg/mL
IL-2	1X Calibrator	75800	fg/mL
IL-1 β	1X Calibrator	137000	fg/mL
IFN- γ	1X Calibrator	42300	fg/mL
IL-17A	1X Calibrator	332000	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
Review/Approval	Karen Hamilla	Quality		22 APR 2026