CERTIFICATE OF ANALYSIS

Page 1 of 2

Product Description: V-PLEX® and V-Plex Plus Human GM-CSF Kit

Kit Catalog Numbers: K151RI-Series

Kit Lot Number: K0080906

Expiration Date: 31 Jul 2019

Acceptance Data/ Percent Recovery Specifications:

		Calibrator		Cytokine Panel 1 (human) Control 1		Cytokine Panel 1 (human) Control 2		Cytokine Panel 1 (human) Control 3	
Spot	Name	Recovery	CV	Recovery	CV	Recovery	CV	Recovery	CV
1	hu GM-CSF	80% - 120%	< 20%	100% - 140%	< 20%	100% - 140%	< 20%	100% - 140%	< 20%

			LLOQ			ULOQ		
Ì	Spot	Name	Value	Recovery	CV	Value	Recovery	CV
ĺ	1	hu GM-CSF	1.90	80% - 120%	< 20%	750	80% - 120%	< 20%

Stock Concentration of Material Tested:

Spot	Name	Item	Conc	Units
1	hu GM-CSF	Calibrator	971	pg/mL
		Cytokine Panel 1 (human) Control 1	362	pg/mL
		Cytokine Panel 1 (human) Control 2	55.8	pg/mL
		Cytokine Panel 1 (human) Control 3	9.8	pg/mL

Controls tested may not be the same lot as shipped.

Standard Curve Data:

hu GM-CSF - Spot 1						
Conc. pg/mL	ECL Signal	%CV				
971	194,000	2.2				
243	51,500	1.3				
60.7	13,000	1.7				
15.2	3,280	1.4				
3.79	879	1.7				
0.948	264	2.0				
0.237	111	2.1				
0.00	63	7.9				

CERTIFICATE OF ANALYSIS

Page 2 of 2

Components:

Description	Lot Number	Storage Temperature	Expiration Date
Human GM-CSF Plate	Z0046679	2-8°C	30 Apr 2020
Anti-hu GM-CSF Antibody	D0080885	2-8°C	31 Jul 2019
Cytokine Panel 1 (human) Calibrator Blend	A0080063	2-8°C	31 Jul 2020
Diluent 43	M0430024	≤ -10°C	31 Jan 2020
Diluent 3	M0030078	≤ -10°C	31 Jan 2020
MSD Read Buffer T	Not Kit Specific	Not Kit Specific	N/A

Additional Components Included in V-PLEX Plus					
Plate Seals	Not Kit Specific				
Wash Buffer (20X), 100 ml	Not Kit Specific				
Cytokine Panel 1 (human) Control 1	Not Kit Specific				
Cytokine Panel 1 (human) Control 2	Not Kit Specific				
Cytokine Panel 1 (human) Control 3	Not Kit Specific				

Statement:

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

	Name	Function	Signature	Date
Review/Approval	Dawn Stollar	Quality Assurance	Dawn Stollar	14 DEC 2017