

U-PLEX[®]

PERSONALIZED MULTIPLEXING

U-DECIDE

The flexibility of the U-PLEX[®] platform empowers you to make personalized multiplex assay combinations of your choice. Now you can build and run your multiplex at your convenience without any additional equipment or time-consuming assay development.

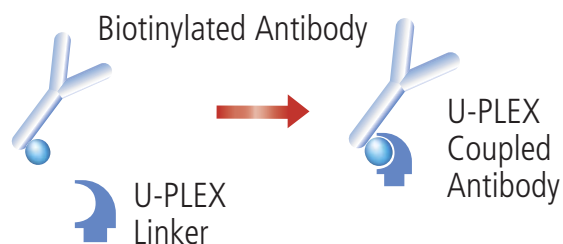
Discover new combinations of results with the quality and performance you expect from MSD.

U-PLEX

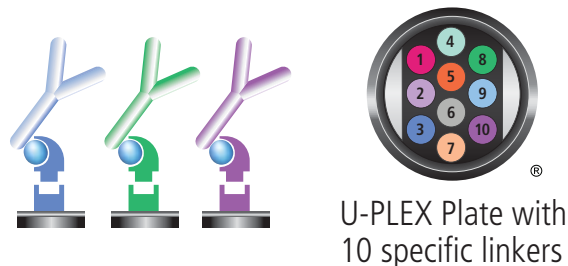
- Design and build your personalized multiplex quickly and easily with the assays that are right for your study
- Create custom combinations from a selection of MSD[®] assays, your own antibodies, or both
- Easy workflow and simple protocol similar to ELISA; no spotting required
- Compatible with all MSD instruments and software
- Open platform: compatible with antibodies, proteins, peptides, carbohydrates, nucleic acids, and oligonucleotides

U-BUILD 1-2-3

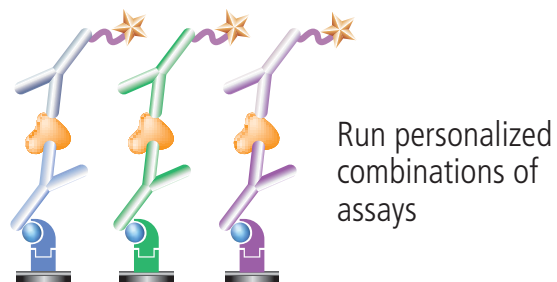
1. COUPLE



2. COAT



3. COMPLETE



It's All About **U**[™]



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Individual Analytes

Human Biomarkers

Analyte	Dynamic Range, pg/mL
CTACK	1.8 – 4,200
ENA-78	0.53 – 3,900
Eotaxin	3.2 – 4,800
Eotaxin-3	7.3 – 21,400
Fractalkine	102 – 180,800
G-CSF	1.6 – 20,400
GM-CSF	0.12 – 9,400
IFN- α 2a	4.0 – 42,400
IFN- γ	1.7 – 17,000
IL-1 α	0.98 – 5,100
IL-1 β	0.15 – 3,800
IL-2	0.70 – 1,900
IL-4	0.08 – 2,100
IL-5	0.24 – 4,000
IL-6	0.33 – 2,000
IL-7	1.5 – 7,000
IL-8	0.15 – 2,200
IL-10	0.14 – 3,700
IL-12/IL-23p40	2.8 – 21,000
IL-12p70	0.69 – 5,300
IL-13	3.1 – 1,900
IL-15	0.82 – 3,000
IL-16	6.6 – 21,500
IL-17A	2.07 – 23,400
IL-17A/F	1.8 – 18,400
IL-17E/IL-25	0.58 – 9,200
IL-17F	155 – 112,000
IL-18	2.5 – 42,000
IL-21	1.2 – 12,600
IL-22	0.13 – 3,400
IL-23	1.4 – 21,600
IL-27	9.6 – 50,600
IL-29/IFN- λ 1	1.2 – 11,800
IL-31	7.3 – 11,100
IL-33	0.59 – 10,300
IP-10	0.49 – 6,000
I-TAC	1.5 – 5,100
MCP-1	0.74 – 6,600
MCP-4	7.5 – 3,800
MDC	8.4 – 20,100
MIP-1 α	7.7 – 4,200
MIP-1 β	1.5 – 1,600
MIP-3 α	1.8 – 20,800
MIP-3 β	0.67 – 2,000
SDF-1 α	278 – 103,200
TARC	0.51 – 2,200
TNF- α	0.51 – 3,700
TNF- β	0.47 – 4,300
TPO	19 – 40,400
TSLP	0.20 – 10,100
VEGF-A	2.0 – 4,900

Non-Human Primate (NHP) Biomarkers

Analyte	Dynamic Range, pg/mL
CTACK	1.8 – 4,200
Eotaxin	0.30 – 4,800
Eotaxin-3	7.3 – 21,400
Fractalkine	102 – 180,800
G-CSF	1.5 – 20,400
GM-CSF	0.12 – 9,400
IFN- γ	1.7 – 17,000
IL-1 α	0.60 – 5,100
IL-1 β	0.15 – 3,800
IL-2	0.70 – 1,900
IL-4	0.06 – 2,100
IL-5	0.24 – 4,000
IL-6	0.33 – 2,000
IL-7	1.5 – 7,000
IL-8	0.15 – 2,200
IL-10	0.14 – 3,700
IL-12/IL-23p40	2.9 – 21,000
IL-12p70	0.54 – 5,300
IL-15	0.82 – 3,000
IL-16	6.6 – 21,500
IL-17A	2.3 – 23,400
IL-18	2.5 – 42,000
IP-10	0.49 – 6,000
I-TAC	1.5 – 2,000
MCP-1	0.74 – 6,600
MCP-4	7.5 – 3,800
MDC	8.4 – 20,100
MIP-1 α	7.7 – 4,200
MIP-1 β	1.5 – 1,600
MIP-3 β	0.67 – 2,000
SDF-1 α	17.8 – 103,200
TARC	0.51 – 2,200
TNF- α	0.54 – 3,700
TNF- β	0.47 – 4,300
TPO	19 – 40,400
VEGF-A	2.0 – 4,900

Mouse Biomarkers

Analyte	Dynamic Range, pg/mL
EPO	4.5 – 12,500
GM-CSF	0.16 – 1,000
IFN- γ	0.16 – 2,900
IL-1 β	3.1 – 13,000
IL-2	1.1 – 10,900
IL-4	0.56 – 10,000
IL-5	0.63 – 2,800
IL-6	4.8 – 16,000
IL-10	3.8 – 22,800
IL-12/IL-23p40	1.4 – 20,400
IL-12p70	48 – 89,000
IL-13	2.7 – 22,800
IL-15	24 – 131,400
IL-16	3.6 – 6,300
IL-17A	0.30 – 2,100
IL-17C	2.3 – 45,600
IL-17E/IL-25	1.6 – 18,900
IL-17F	24 – 52,600
IL-21	6.5 – 40,600
IL-22	1.2 – 1,800
IL-23	4.9 – 20,400
IL-27p28/IL-30	8.7 – 73,300
IL-31	45 – 66,300
IL-33	2.2 – 36,100
KC/GRO	4.8 – 16,000
TNF- α	1.3 – 6,200
VEGF-A	0.77 – 12,100

Dynamic range shown represents LLOD - ULOD.



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U-PLEX Combinations

U-PLEX Combinations represent popular combinations of analytes, grouped into separate catalog numbers for ordering convenience.

Species	Name (Catalog Number)	Analytes
Human	Biomarker Group 1 51-Plex (K15081K)	CTACK, ENA-78, Eotaxin, Eotaxin-3, Fractalkine, G-CSF, GM-CSF, IFN- α 2a, IFN- γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17A/F, IL-17E/IL-25, IL-17F, IL-18, IL-21, IL-22, IL-23, IL-27, IL-29/IFN- λ 1, IL-31, IL-33, IP-10, I-TAC, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , MIP-3 α , MIP-3 β , SDF-1 α , TARC, TNF- α , TNF- β , TPO, TSLP, VEGF-A
Human	Biomarker Group 1 40-Plex (K15067K)	CTACK, ENA-78, Eotaxin, Eotaxin-3, Fractalkine, G-CSF, GM-CSF, IFN- α 2a, IFN- γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-18, IP-10, I-TAC, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , MIP-3 α , MIP-3 β , SDF-1 α , TARC, TNF- α , TNF- β , TPO, VEGF-A
Human	TH1/TH2 Combo (K15010K)	IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-8, IL-10, IL-12p70, IL-13, TNF- α
Human	TH17 Combo 1 (K15075K) NEW	IL-17A, IL-17E/IL-25, IL-17F, IL-21, IL-22, IL-23, IL-27, IL-31, IL-33
Human	TH17 Combo 2 (K15076K) NEW	IFN- γ , IL-1 β , IL-6, IL-10, IL-17A, IL-17E/IL-25, IL-17F, IL-21, IL-22, TNF- α
Human	Proinflam Combo 1 (K15049K)	IFN- γ , IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, IL-12p70, IL-13, TNF- α
Human	Proinflam Combo 2 (K15066K)	GM-CSF, IFN- γ , IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, IL-12p70
Human	Proinflam Combo 3 (K15052K)	IFN- γ , IL-1 β , IL-6, TNF- α
Human	Proinflam Combo 4 (K15053K)	IL-1 β , IL-6, IL-8, TNF- α
Human	Cytokine Combo 1 (K15045K)	GM-CSF, IL-1 α , IL-5, IL-7, IL-12/IL-23p40, IL-15, IL-16, IL-17A, TNF- β , VEGF-A
Human	Chemokine Combo 1 (K15047K)	Eotaxin, Eotaxin-3, IL-8, IP-10, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , TARC
Human	Chemokine Combo 2 (K15046K)	CTACK, ENA-78, Fractalkine, I-TAC, MIP-3 α , MIP-3 β , SDF-1 α
NHP*	Biomarker Group 1 36-Plex (K15082K)	CTACK, Eotaxin, Eotaxin-3, Fractalkine, G-CSF, GM-CSF, IFN- γ , IL-1 α , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12/IL-23p40, IL-12p70, IL-15, IL-16, IL-17A, IL-18, IP-10, I-TAC, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , MIP-3 β , SDF-1 α , TARC, TNF- α , TNF- β , TPO, VEGF-A
NHP*	Biomarker Group 1 30-Plex (K15068K)	CTACK, Eotaxin-3, Fractalkine, G-CSF, GM-CSF, IFN- γ , IL-1 β , IL-2, IL-5, IL-6, IL-7, IL-8, IL-10, IL-12/IL-23p40, IL-15, IL-16, IL-17A, IL-18, IP-10, I-TAC, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , MIP-3 β , TARC, TNF- β , TPO, VEGF-A
NHP*	TH17 Combo 1 (K15079K) NEW	IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-17A, TNF- α
NHP*	TH1/TH2 Combo (K15080K)	IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-8, IL-10, IL-12p70, TNF- α
NHP*	Proinflam Combo 1 (K15070K)	IFN- γ , IL-1 β , IL-2, IL-4, IL-6, IL-8, IL-10, IL-12/IL-23p40, TNF- α
NHP*	Cytokine Combo 1 (K15057K)	GM-CSF, IL-1 α , IL-5, IL-7, IL-12/IL-23p40, IL-15, IL-16, IL-17A, TNF- β , VEGF-A
NHP*	Chemokine Combo 1 (K15055K)	Eotaxin, Eotaxin-3, IL-8, IP-10, MCP-1, MCP-4, MDC, MIP-1 α , MIP-1 β , TARC
Mouse	Biomarker Group 1 27-Plex (K15083K)	EPO, GM-CSF, IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12/IL-23p40, IL-12p70, IL-13, IL-15, IL-16, IL-17A, IL-17C, IL-17E/IL-25, IL-21, IL-22, IL-23, IL-27p28/IL-30, IL-31, IL-33, KC/GRO, TNF- α , VEGF-A
Mouse	Biomarker Group 1 14-Plex (K15069K)	EPO, GM-CSF, IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12p70, IL-13, KC/GRO, TNF- α , VEGF-A
Mouse	TH1/TH2 Combo (K15071K)	IFN- γ , IL-1 β , IL-2, IL-4, IL-5, IL-8, IL-10, IL-12p70, IL-13, TNF- α
Mouse	TH17 Combo 1 (K15077K) NEW	IL-17A, IL-17C, IL-17E/IL-25, IL-17F, IL-21, IL-22, IL-23, IL-31, IL-33
Mouse	TH17 Combo 2 (K15078K) NEW	IFN- γ , IL-1 β , IL-6, IL-17A, IL-17C, IL-17E, IL-17F, IL-21, IL-22, TNF- α

*NHP assays recognize analytes from Cynomolgus and Rhesus monkeys.

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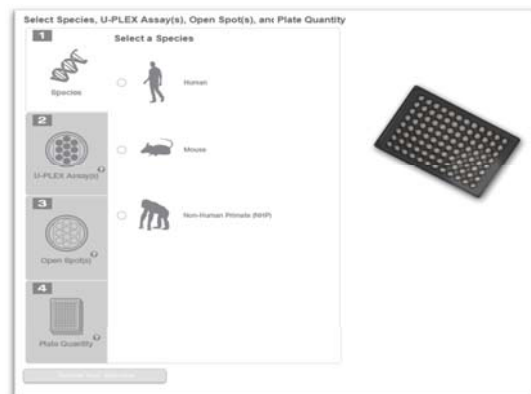
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Customize Your U-PLEX Assay With The U-PLEX Assay Designer

The U-PLEX platform allows you to create custom panels quickly in your own lab from a selection of MSD assays, your own antibodies, or a combination of both.

- Step 1.** Choose your species of interest to see available assays.
- Step 2.** Select desired assays from the U-PLEX assay list.
- Step 3.** If you will be using your own antibodies, select the number of open spots required.
- Step 4.** Select your plate quantity.

Explore your customization options at www.mesoscale.com/U-PLEXDesigner



U-PLEX Groups

A comprehensive menu of analytes assembled by species, abundance in matrices tested, analytical compatibility, clinical range, and expected use. Any number of assays may be selected from within a group.

Species	Name	Cat. No.
Human	Biomarker Group 1 Assays	K15067L
NHP	Biomarker Group 1 Assays	K15068L
Mouse	Biomarker Group 1 Assays	K15069L

U-PLEX Custom Assays

U-PLEX custom assays enable creation of custom multiplexes with MSD U-PLEX assays and your own analytes, using open spots.

Species	Name	Cat. No.
Human	Custom Biomarker Assays	K15067M
NHP	Custom Biomarker Assays	K15068M
Mouse	Custom Biomarker Assays	K15069M

U-PLEX Development Packs

Perform custom multiplexing with your own analytes, with 2 to 10 activated spots per well.

Name	Cat. No.
2-Assay SECTOR® Plate	K15227N
3-Assay SECTOR Plate	K15228N
4-Assay SECTOR Plate	K15229N
5-Assay SECTOR Plate	K15230N
6-Assay SECTOR Plate	K15231N
7-Assay SECTOR Plate	K15232N
8-Assay SECTOR Plate	K15233N
9-Assay SECTOR Plate	K15234N
10-Assay SECTOR Plate	K15235N

U-PLEX Training Options

Comprehensive training options that deliver the confidence and skills needed to perform U-PLEX assays on your own, ranging from instructor-led training to self-directed demonstration kits.

Name	Description	Cat. No.
Assay Development Training	Assay development guidance from our expert field application scientists at your site; includes U-PLEX Training Pack.	S00AD-1
Training Pack (4-Assay, 5-Plate Pack Size)	IL-1 β , IL-6, IL-8, TNF- α	K15237K-2
Training Pack (10-Assay, 5-Plate Pack Size)	IL-1 β , IL-6, IL-8, TNF- α and 6 open spots for training purposes	K15236K-2
Proinflammatory (hu) Demonstration Kit (1-Plate Pack Size)	IL-1 β , IL-6, IL-8, TNF- α	K15064K-1

Customer Service

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

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