

# Certificate of analysis

## ProcartaPlex

Cat. number: **EPX640-20064-901**  
96 tests/64 analytes

Name: **ProcartaPlex Mouse Immune Response Panel 64-plex**

Lot number: **409208-009**

Expiry Date: **2026-12**

### Components

| Components                         | Quantity       | Lot        | Store at |
|------------------------------------|----------------|------------|----------|
| B20064EX Bead Mix                  | 1 x 5ml (1x)   | 395927-000 | 2-8°C    |
| BK20064EX Det. Ab Mix              | 1 x 3.5ml (1x) | 395974-000 | 2-8°C    |
| S20834EX Standard Mix D            | 2 each         | 432627-000 | 2-8°C    |
| C20834LowEX mouse Control D Low    | 2 each         | 432628-000 | 2-8°C    |
| C20834HighEX mouse Control D High  | 2 each         | 432624-000 | 2-8°C    |
| S20064EX Standardmix K             | 2 each         | 434556-000 | 2-8°C    |
| C20064LOWEX Mouse Control K Low    | 2 each         | 403516-000 | 2-8°C    |
| C20064HIGHEX Mouse Control K High  | 2 each         | 403515-000 | 2-8°C    |
| RBEX/46 Reading Buffer             | 1 x 40ml       | 24115014   | 2-8°C    |
| UABEX/11 Universal Assay Buffer 1x | 1 x 10ml       | 25017681   | 2-8°C    |
| WBEX/28 10x Wash Buffer            | 1 x 25ml       | 24057242   | 2-8°C    |
| SA-PE Streptavidin-PE              | 1 x 5ml        | 404758-000 | 2-8°C    |
| SVM104 Black Microplate Lid        | 1 each         |            | 2-8°C    |
| SVM16 Plate Covers                 | 8 each         |            | 2-8°C    |
| SVM183 PCR 8-Tube Strip            | 2 each         |            | 2-8°C    |
| SVM182 Flat bottom Plate (black)   | 1 each         |            | 2-8°C    |

# **Bead Mix    Lot#395927-000**

| Target Name         | Bead Number | Concentration Std1 | Standard       |
|---------------------|-------------|--------------------|----------------|
| BAFF                | 67          | 8700 pg/ml         | Standard Mix D |
| Betacellulin (BTC)  | 73          | 8500 pg/ml         | Standard Mix D |
| BLC (CXCL13)        | 99          | 2000 pg/ml         | Standardmix K  |
| CD27                | 84          | 21900 pg/ml        | Standardmix K  |
| CTACK (CCL27)       | 59          | 13800 pg/ml        | Standardmix K  |
| ENA-78 (CXCL5)      | 57          | 49400 pg/ml        | Standard Mix D |
| Eotaxin (CCL11)     | 62          | 2100 pg/ml         | Standard Mix D |
| Eotaxin-2 (CCL24)   | 69          | 5600 pg/ml         | Standardmix K  |
| G-CSF (CSF-3)       | 12          | 6700 pg/ml         | Standard Mix D |
| GM-CSF              | 42          | 9000 pg/ml         | Standard Mix D |
| Granzyme B          | 49          | 38100 pg/ml        | Standardmix K  |
| GRO alpha (CXCL1)   | 43          | 10600 pg/ml        | Standard Mix D |
| I-TAC (CXCL11)      | 81          | 5700 pg/ml         | Standardmix K  |
| IFN alpha           | 30          | 23300 pg/ml        | Standard Mix D |
| IFN gamma           | 38          | 2650 pg/ml         | Standard Mix D |
| IL-1 alpha          | 56          | 12900 pg/ml        | Standard Mix D |
| IL-1 beta           | 19          | 9400 pg/ml         | Standard Mix D |
| IL-10               | 13          | 27100 pg/ml        | Standard Mix D |
| IL-12p70            | 39          | 11100 pg/ml        | Standard Mix D |
| IL-13               | 35          | 14800 pg/ml        | Standard Mix D |
| IL-15               | 54          | 17700 pg/ml        | Standard Mix D |
| IL-16               | 68          | 3050 pg/ml         | Standardmix K  |
| IL-17A (CTLA-8)     | 52          | 5000 pg/ml         | Standard Mix D |
| IL-18               | 66          | 107500 pg/ml       | Standard Mix D |
| IL-19               | 61          | 115100 pg/ml       | Standard Mix D |
| IL-2                | 20          | 16500 pg/ml        | Standard Mix D |
| IL-22               | 33          | 66600 pg/ml        | Standard Mix D |
| IL-23               | 37          | 59500 pg/ml        | Standard Mix D |
| IL-25 (IL-17E)      | 29          | 21400 pg/ml        | Standard Mix D |
| IL-27               | 36          | 13200 pg/ml        | Standard Mix D |
| IL-28               | 64          | 201900 pg/ml       | Standard Mix D |
| IL-2R               | 63          | 17100 pg/ml        | Standard Mix D |
| IL-3                | 14          | 1650 pg/ml         | Standard Mix D |
| IL-31               | 76          | 39500 pg/ml        | Standard Mix D |
| IL-33               | 75          | 175500 pg/ml       | Standard Mix D |
| IL-33R (ST2)        | 78          | 117700 pg/ml       | Standard Mix D |
| IL-4                | 26          | 4700 pg/ml         | Standard Mix D |
| IL-5                | 27          | 40000 pg/ml        | Standard Mix D |
| IL-6                | 28          | 24100 pg/ml        | Standard Mix D |
| IL-6R/sIL-6R        | 91          | 1624000 pg/ml      | Standardmix K  |
| IL-7                | 74          | 23300 pg/ml        | Standard Mix D |
| IL-7R alpha         | 53          | 18100 pg/ml        | Standard Mix D |
| IL-9                | 34          | 22900 pg/ml        | Standard Mix D |
| IP-10 (CXCL10)      | 22          | 5250 pg/ml         | Standard Mix D |
| Leptin              | 65          | 533500 pg/ml       | Standard Mix D |
| LIF                 | 18          | 7600 pg/ml         | Standard Mix D |
| M-CSF               | 21          | 2850 pg/ml         | Standard Mix D |
| MCP-1 (CCL2)        | 51          | 54700 pg/ml        | Standard Mix D |
| MCP-3 (CCL7)        | 48          | 3550 pg/ml         | Standard Mix D |
| MCP-5 (CCL12)       | 98          | 3000 pg/ml         | Standardmix K  |
| MDC (CCL22)         | 88          | 3400 pg/ml         | Standardmix K  |
| MIP-1 alpha (CCL3)  | 47          | 2350 pg/ml         | Standard Mix D |
| MIP-1 beta (CCL4)   | 72          | 3850 pg/ml         | Standard Mix D |
| MIP-2 alpha (CXCL2) | 55          | 4300 pg/ml         | Standard Mix D |
| MIP-3 beta (CCL19)  | 87          | 13300 pg/ml        | Standardmix K  |
| RANKL               | 46          | 7550 pg/ml         | Standard Mix D |
| RANTES (CCL5)       | 44          | 19200 pg/ml        | Standard Mix D |
| SYB16 (CXCL16)      | 58          | 2400 pg/ml         | Standardmix K  |
| TARC (CCL17)        | 79          | 3800 pg/ml         | Standardmix K  |
| TECK (CCL25)        | 89          | 510400 pg/ml       | Standardmix K  |
| TNF alpha           | 45          | 17200 pg/ml        | Standard Mix D |
| TSLP                | 70          | 21000 pg/ml        | Standardmix K  |
| VEGF-A              | 25          | 9550 pg/ml         | Standard Mix D |
| VEGF-R2 (KDR)       | 96          | 58500 pg/ml        | Standardmix K  |

**Standard Mix D Lot#432627-000**

Provided below is a table of Standard 1 (Std1) value for each analyte in each tube when prepared according to the "Prepare antigen standard" procedure of the Manual. All data were evaluated in a 2-hour incubation at room temperature.

| Analyte             | Std1 Concentration<br>(pg/ml) | ULOQ / LLOQ<br>(pg/ml)<br>Determined in Universal Assay Buffer |
|---------------------|-------------------------------|----------------------------------------------------------------|
| BAFF                | 8700                          | 8700 / 2,12                                                    |
| Betacellulin (BTC)  | 8500                          | 8500 / 2,08                                                    |
| ENA-78 (CXCL5)      | 49400                         | 49400 / 12                                                     |
| Eotaxin (CCL11)     | 2100                          | 2100 / 0,51                                                    |
| G-CSF (CSF-3)       | 6700                          | 6700 / 1,64                                                    |
| GM-CSF              | 9000                          | 9000 / 2,20                                                    |
| GRO alpha (CXCL1)   | 10600                         | 10600 / 2,59                                                   |
| IFN alpha           | 23300                         | 23300 / 23                                                     |
| IFN gamma           | 2650                          | 2650 / 0,65                                                    |
| IL-1 alpha          | 12900                         | 12900 / 3,15                                                   |
| IL-1 beta           | 9400                          | 9400 / 2,29                                                    |
| IL-10               | 27100                         | 27100 / 6,62                                                   |
| IL-12p70            | 11100                         | 11100 / 2,71                                                   |
| IL-13               | 14800                         | 14800 / 3,61                                                   |
| IL-15               | 17700                         | 17700 / 4,32                                                   |
| IL-17A (CTLA-8)     | 5000                          | 5000 / 1,22                                                    |
| IL-18               | 107500                        | 107500 / 26                                                    |
| IL-19               | 115100                        | 115100 / 28                                                    |
| IL-2                | 16500                         | 16500 / 4,03                                                   |
| IL-22               | 66600                         | 66600 / 16                                                     |
| IL-23               | 59500                         | 59500 / 15                                                     |
| IL-25 (IL-17E)      | 21400                         | 5350 / 5,22                                                    |
| IL-27               | 13200                         | 13200 / 3,22                                                   |
| IL-28               | 201900                        | 201900 / 49                                                    |
| IL-2R               | 17100                         | 17100 / 4,17                                                   |
| IL-3                | 1650                          | 1650 / 0,40                                                    |
| IL-31               | 39500                         | 39500 / 9,64                                                   |
| IL-33               | 175500                        | 175500 / 43                                                    |
| IL-33R (ST2)        | 117700                        | 117700 / 29                                                    |
| IL-4                | 4700                          | 4700 / 1,15                                                    |
| IL-5                | 40000                         | 10000 / 9,77                                                   |
| IL-6                | 24100                         | 24100 / 5,88                                                   |
| IL-7                | 23300                         | 23300 / 5,69                                                   |
| IL-7R alpha         | 18100                         | 18100 / 4,42                                                   |
| IL-9                | 22900                         | 5725 / 5,59                                                    |
| IP-10 (CXCL10)      | 5250                          | 5250 / 1,28                                                    |
| Leptin              | 533500                        | 533500 / 130                                                   |
| LIF                 | 7600                          | 7600 / 1,86                                                    |
| MCP-1 (CCL2)        | 54700                         | 13675 / 13                                                     |
| MCP-3 (CCL7)        | 3550                          | 3550 / 0,87                                                    |
| M-CSF               | 2850                          | 713 / 0,70                                                     |
| MIP-1 alpha (CCL3)  | 2350                          | 2350 / 0,57                                                    |
| MIP-1 beta (CCL4)   | 3850                          | 963 / 0,94                                                     |
| MIP-2 alpha (CXCL2) | 4300                          | 4300 / 1,05                                                    |
| RANKL               | 7550                          | 7550 / 1,84                                                    |
| RANTES (CCL5)       | 19200                         | 4800 / 4,69                                                    |
| TNF alpha           | 17200                         | 17200 / 4,20                                                   |
| VEGF-A              | 9550                          | 2388 / 2,33                                                    |

**Standardmix K Lot#434556-000**

Provided below is a table of Standard 1 (Std1) value for each analyte in each tube when prepared according to the "Prepare antigen standard" procedure of the Manual. All data were evaluated in a 2-hour incubation at room temperature.

| Analyte            | Std1 Concentration<br>(pg/ml) | ULOQ / LLOQ<br>(pg/ml)<br>Determined in Universal Assay Buffer |
|--------------------|-------------------------------|----------------------------------------------------------------|
| BLC (CXCL13)       | 2000                          | 2000 / 0,49                                                    |
| CD27               | 21900                         | 21900 / 5,35                                                   |
| CTACK (CCL27)      | 13800                         | 13800 / 3,37                                                   |
| Eotaxin-2 (CCL24)  | 5600                          | 5600 / 1,37                                                    |
| Granzyme B         | 38100                         | 38100 / 9,30                                                   |
| IL-16              | 3050                          | 3050 / 0,74                                                    |
| IL-6R/sIL-6R       | 1624000                       | 1624000 / 396                                                  |
| I-TAC (CXCL11)     | 5700                          | 5700 / 1,39                                                    |
| MCP-5 (CCL12)      | 3000                          | 750 / 0,73                                                     |
| MDC (CCL22)        | 3400                          | 850 / 0,83                                                     |
| MIP-3 beta (CCL19) | 13300                         | 13300 / 3,25                                                   |
| SYB16 (CXCL16)     | 2400                          | 2400 / 0,59                                                    |
| TARC (CCL17)       | 3800                          | 3800 / 0,93                                                    |
| TECK (CCL25)       | 510400                        | 510400 / 125                                                   |
| TSLP               | 21000                         | 21000 / 5,13                                                   |
| VEGF-R2 (KDR)      | 58500                         | 58500 / 14                                                     |

**Analytical information:**

This product has been tested by Quality Control and passed internal specifications.

Quality control:



For Research Use Only. Not for use in diagnostic procedures. If you have any further questions about this Certificate of Analysis, please contact Technical Services at 1-800-955-6288 (US and Canada) or 1-760-603-7200, x2 (all other countries).  
For inquiries, contact us at "thermofisher.com/askaquestion"