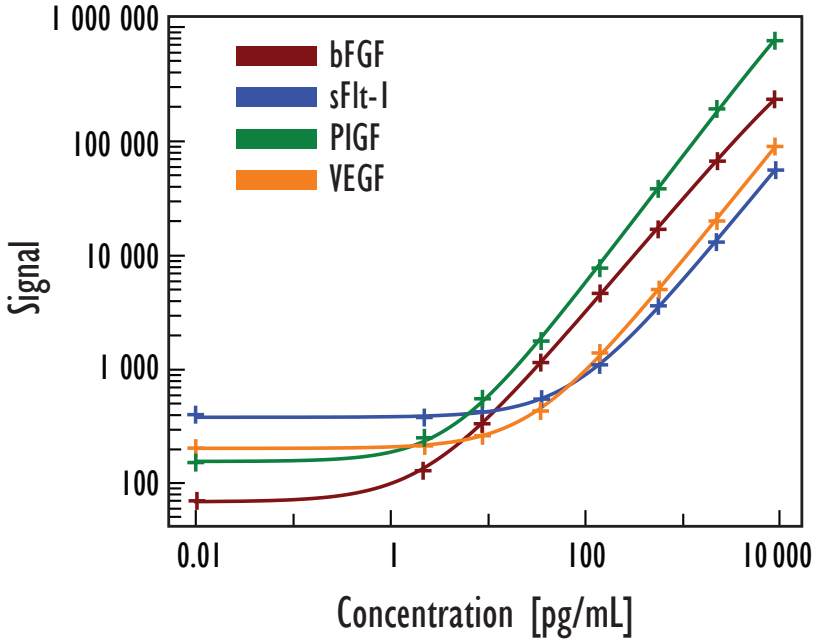
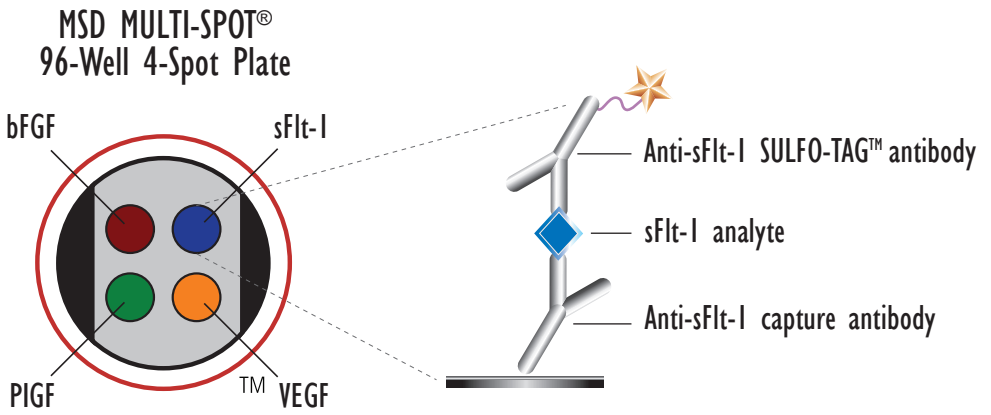
# MULTI-SPOT® Human Growth Factor Panel I Assay

## *Detection of bFGF, sFlt-1, PlGF, and VEGF in Human Serum and Plasma Samples*




| | bFGF | sFlt-1 | PlGF | VEGF |
|---|---|---|---|---|
| LLOD (pg/mL): | 2.2 | 8.9 | 0.96 | 6.4 |

LLOD (Lower Limit of Detection) is defined as 2.5x stdev above the background.

| Calibrator (pg/mL) | bFGF | | sFlt-1 | | PlGF | | VEGF | |
|---|---|---|---|---|---|---|---|---|
| | Signal | %CV | Signal | %CV | Signal | %CV | Signal | %CV |
| 0 | 71 | 4.2 | 404 | 4.3 | 150 | 8.3 | 208 | 4.8 |
| 2 | 133 | 3.7 | 387 | 7.6 | 250 | 4.7 | 218 | 7.1 |
| 9 | 345 | 2.6 | 415 | 3.0 | 558 | 0.3 | 265 | 6.1 |
| 35 | 1149 | 5.4 | 543 | 3.3 | 1784 | 4.0 | 437 | 4.6 |
| 141 | 4641 | 1.7 | 1129 | 2.4 | 7928 | 1.1 | 1422 | 0.8 |
| 563 | 17326 | 5.0 | 3550 | 3.4 | 38257 | 3.4 | 4903 | 2.5 |
| 2250 | 65545 | 3.1 | 13238 | 3.6 | 190447 | 3.2 | 20087 | 2.5 |
| 9000 | 235652 | 2.2 | 55940 | 3.9 | 765973 | 3.0 | 90165 | 0.4 |

Above is representative calibration curve data

| Kit Size | Catalog Number |
|---|---|
| 1 plate | K15029C-1 |
| 5 plates | K15029C-2 |
| 20 plates | K15029C-3 |
| 20 plates (Base) | K15029A-3 |

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## Recovery of Spiked Calibrator

- Measured analyte spiked into pooled human samples
- % recovery = $\frac{(\text{measured value} * 100)}{\text{expected value}}$

| | Spike Level (pg/mL) | Serum | EDTA Plasma |
|---|---|---|---|
| bFGF | 100 | 99 | 77 |
| sFlt-1 | 1,000 | 105 | 94 |
| PlGF | 100 | 111 | 98 |
| VEGF | 100 | 114 | 95 |

## Recovery of Dilution Linearity

- Measured analyte levels in pooled serum diluted in assay diluent
- % recovery = $\frac{(\text{measured value} * \text{dilution factor} * 100)}{\text{predicted value}}$

| Dilution Factor | bFGF | sFlt-1 | PlGF | VEGF |
|---|---|---|---|---|
| 0.75 | 107 | 107 | 104 | 105 |
| 0.5 | 106 | 101 | 101 | 99 |
| 0.25 | 104 | 98 | 98 | 93 |

## Endogenous Analyte Levels in Samples

- Normal pooled samples

| | bFGF (pg/mL) | sFlt-1 (pg/mL) | PlGF (pg/mL) | VEGF (pg/mL) |
|---|---|---|---|---|
| Serum | < 1 | 63 | 13 | 31 |
| EDTA Plasma | 7 | 201 | 16 | 148 |