

B·R·A·H·M·S PIGF plus KRYPTOR

Screening for pre-eclampsia and trisomy 21

Thermo Scientific™ B·R·A·H·M·S™ PIGF plus KRYPTOR™ is an automated immunofluorescent assay for the quantitative determination of placental growth factor (PIGF) in human serum and EDTA plasma.

- CE mark for trisomy and pre-eclampsia first trimester screening
- Very low detection limit: 3.6 pg/mL
- Best functional assay sensitivity (FAS): 6.7 pg/mL
- Lowest cross-reactivity to PIGF-2 (13%) and PIGF-3 (4%)

Clinical Interest

- **First trimester screening for fetal aneuploidies** in conjunction with additional clinical evaluation to assess the risk of fetal trisomy 21
- **First trimester screening for pre-eclampsia** in conjunction with additional clinical evaluation to assess the risk for developing pre-eclampsia
- **Aid in diagnosis and short-term prognosis of pre-eclampsia** together with B·R·A·H·M·S sFlt-1 KRYPTOR and additional clinical evaluation in pregnant women with suspected pre-eclampsia > 20 weeks of gestation



Ease of Handling

Sample volume	70 µL
Sample type	Serum, EDTA plasma
Incubation time	29 min
Measuring range	3.6 –7 000 pg/mL
Detection limit	3.6 pg/mL
FAS	6.7 pg/mL
Kit stability on board	29 days
Calibrator	1 point
Calibration stability	15 days



Excellent Precision

Reproducibility		
Sample	Mean [pg/mL]	Within-assay CV %
1	17.2	7.6%
2	47.3	3.1%
3	411.0	1.7%

Sample	Mean [pg/mL]	Between-assay CV %
4	17.2	8.6%
5	47.3	6.6%
6	928.0	4.6%

Normal values

A study of 100 presumably healthy men and non pregnant women showed that 95% of the samples were found below 16.5 pg/mL. The median value was 10.3 pg/mL.

Calibration

The PIGF results are given in pg/mL, an international reference preparation is not available.

Thermo Scientific Products

Article number	Description
859.075	B·R·A·H·M·S PIGF plus KRYPTOR Kit, reagents for 75 determinations
85991	B·R·A·H·M·S PIGF plus KRYPTOR CAL Calibrator kit
85992	B·R·A·H·M·S PIGF plus KRYPTOR QC Control kit, 3 levels

Normal Values During Pregnancy

First trimester of pregnancy				
Gestational age (completed weeks)	n	5 th percentile [pg/mL]	Median [pg/mL]	95 th percentile [pg/mL]
8	99	9.3	17.1	28.9
9	100	11.7	22.7	37.8
10	150	16.2	28.2	55.0
11	83	19.0	32.7	61.0
12	231	21.3	42.3	96.7
13	122	25.2	54.7	100.4
14	13	34.3	61.6	132.0

2nd and 3rd trimester of pregnancy

Gestational age (completed weeks)	n	5 th percentile [pg/mL]	Median [pg/mL]	95 th percentile [pg/mL]
14-19	21	43	101	348
20-24	60	183	391	868
25-28	66	145	459	1000
29-33	44	71	507	1157
34-36	39	41	170	752
37-delivery	117	37	131	750

B·R·A·H·M·S PIGF plus KRYPTOR is available on

<input type="checkbox"/>	B·R·A·H·M·S KRYPTOR
<input type="checkbox"/>	B·R·A·H·M·S KRYPTOR compact
<input checked="" type="checkbox"/>	B·R·A·H·M·S KRYPTOR compact PLUS
<input checked="" type="checkbox"/>	B·R·A·H·M·S KRYPTOR GOLD

B·R·A·H·M·S PIGF plus KRYPTOR is **CE marked**.

Clinical Diagnostics

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