

Thermo Scientific B·R·A·H·M·S Free β hCG KRYPTOR

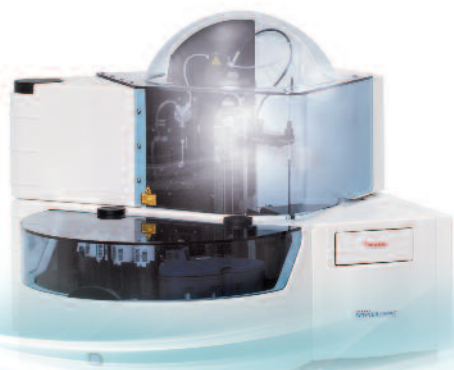
The gold standard in combined
1st trimester screening

Automated immunofluorescent assay for the determination of free β subunit of human chorionic gonadotropin hormone (free β hCG) in human serum

- Excellent precision:
CV less than 4% between day
- Low detection limit: 0.16 IU/L
- Rapid assay time: 19 min
- Kinetic reading – leading to automatic rediluting of high samples within 4 min
- In routine use by FMF since 1999



The Fetal
Medicine Foundation



Clinical Interest

Prenatal Screening for chromosomal abnormalities in the **1st trimester** of pregnancy including maternal age, PAPP-A and Free β hCG associated with the ultrasound measurement of nuchal translucency

Prenatal Screening for chromosomal abnormalities in the **2nd trimester** of pregnancy including maternal age, Free β hCG and AFP

Oncology: Diagnosis and follow-up of trophoblastic tumors of ovarian, placental or testicular origin

Ease of Handling

Sample volume	26 μ L
Sample type	Serum
Incubation time	19 min
Direct measurement	0.16...150 IU/L
Measuring range with automatic dilution	0.16...50 000 IU/L
Detection limit	0.16 IU/L
Kit stability on board	4 weeks
Calibrator	1 point
Calibration stability	15 days

Excellent Precision

Reproducibility*		
Sample	Mean [IU/L]	Between-assay/one instrument (n=~500 over 1 year for each sample) CV%
1	8.05	3.69
2	20.88	2.72
3	86.40	2.90

Sample	Mean [IU/L]	Between-assay/between instrument (n=~1000 over 1 year for each sample) CV%
1	8.12	3.94
2	21.22	2.78
3	86.11	3.03

* Source: Spencer K. Risk, a QC parameter. DSNEWS 2003,10(1):30-31

Normal values

<0.16 IU/L (males and non pregnant females)

Calibration

The Free β hCG results are given in IU/L (WHO IRP1st IRP WHO 75/551).

Reference Values Pregnancy (1st Trimester)

Gestational age (completed weeks)	n	5 th percentile [IU/L]	Median [IU/L]	95 th percentile [IU/L]
11	>5000	16.68	44.83	120.47
12	>5000	14.63	39.33	105.69
13	>5000	11.28	30.32	81.49
14	>5000	8.29	22.29	59.89

Reference Values Pregnancy (2nd Trimester)

Gestational age (completed weeks)	n	5 th percentile [IU/L]	Median [IU/L]	95 th percentile [IU/L]
14	528	7.4	19.7	59.4
15	1906	5.6	15.0	46.4
16	1088	4.2	12.2	34.5
17	507	3.4	9.1	25.6
18	246	2.9	8.4	27.0

Products

Article number	Description
809.075	B-R-A-H-M-S Free βhCG KRYPTOR Kit, reagents for 75 determinations
80991	B-R-A-H-M-S Free βhCG KRYPTOR CAL Calibrator kit, 6 vials
88192	B-R-A-H-M-S GM KRYPTOR QC Control kit prenatal screening, 3 levels (2 vials per level)

B-R-A-H-M-S Free β hCG KRYPTOR available on

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

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Clinical Diagnostics

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