



ANDROGENS

- Androstenedione
- 17-OH-Progesterone
- SHBG
- Testosterone

Androstenedione

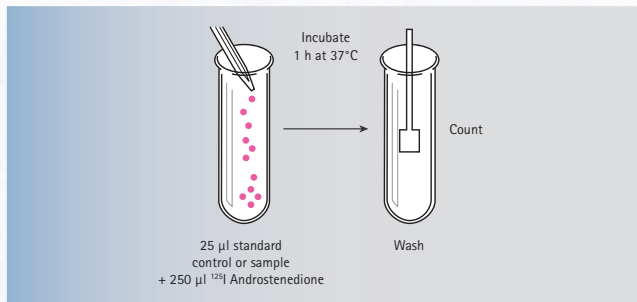
(Ref. R-GM-100)

■ Clinical interest

- Virilizing congenital adrenal hyperplasia
- Adrenal and ovarian virilizing tumors
- Cushing syndrome
- Polycystic ovary syndrome
- Hirsutism in women
- Ovarian stromal hyperthecosis
- 3 β -hydroxysteroid dehydrogenase deficiency

■ Protocol

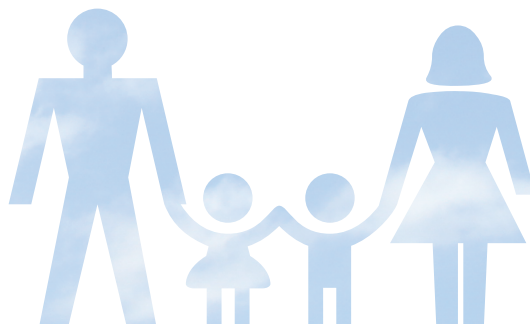
Competition assay



■ Characteristics

- Coated tubes
- Direct protocol
- High sensitivity: Detection limit 0.05 ng/mL
- High specificity:

Cross reactivity with	%
Androsterone	0.0566
17- hydroxyprogesterone	0.084
Cortisone	0.0099
5α - dihydrotestosterone	0.0105
DHEA	0.0155
Isoandrosterone	0.0112
21-deoxycortisone	0.0006
Etiocholanolone	0.0422
Progesterone	0.0168
Corticosterone	0.0047
Cortisol	0.0148
Estrone	0.0270
DHEA-sulfate	0.0009



17 α - hydroxyprogesterone

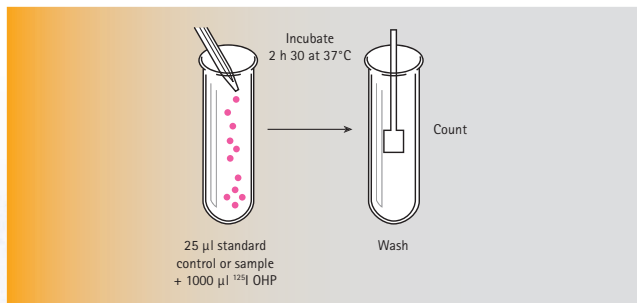
(Ref. OHP-CT)

■ Clinical interest

- Early diagnosis and treatment follow-up of adrenal gland congenital hyperplasia

■ Protocol

Competition assay

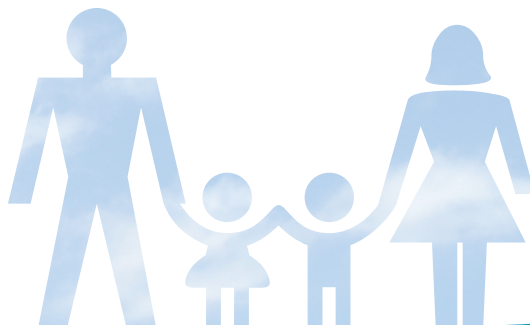


Optional extraction protocol

■ Characteristics

- Coated tubes
- High sensitivity: Detection limit 0.09 nmol/L
- High specificity:

Cross reactivity with	%
17 α - hydroxypregnenolone	2.2
11 - desoxycortisol	2.1
Progesterone	0.49
Androstenedione	< 0.01
Androsterone	< 0.01
DHEA	< 0.01
Desoxycorticosterone	0.02
Pregnenolone	0.01
Corticosterone	< 0.01
Aldosterone	< 0.01
Dihydrotestosterone	< 0.01
Testosterone	< 0.01



Sex Hormone Binding Globulin

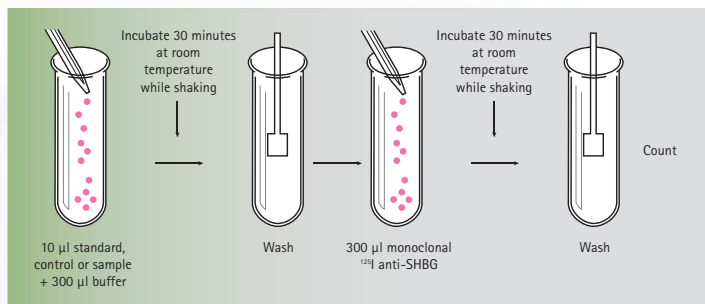
(Ref. SHBG-RIACT)

Clinical interest

- Calculation of free Androgen index:
$$= \frac{\text{Total testosterone}}{\text{SHBG}} \times 100$$
- Assessment of hyperandrogenism etiology (hirsutism, virilism)
- Polycystic ovary syndrome
- Male hypogonadism

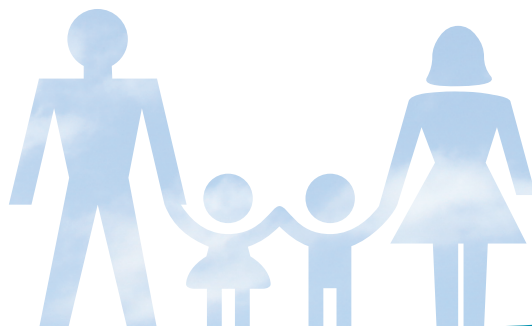
Protocol

Immunoradiometric assay



■ Characteristics

- Coated tubes
- Sensitivity: Detection limit 0.5 nmol/L



Testosterone

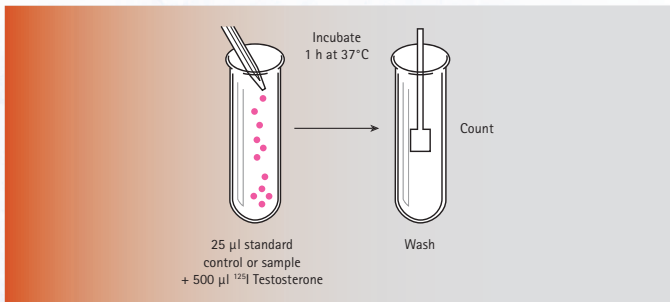
(Ref. TESTO-CT2)

■ Clinical interest

- Androgen deficiency in men
- Delayed or precocious puberty in young men
- Androgen excess in women: hirsutism, virilism
- Polycystic ovary syndrome
- Endocrine therapy monitoring

■ Protocol

Competition assay



Optional extraction protocol

■ Characteristics

- Coated tubes
- High sensitivity: Detection limit 0.1 nmol/L
- High specificity:

Cross reactivity with	%
5 α -dihydrotestosterone	4.5
5 α -Androstenediol - 3 β , 17 β	0.01
Androstenedione	0.03
5-Androstenediol	0.02
Androsterone	0.005
Androstenedione	0.007
5 α -Androstenediol - 3 α , 17 β	0.01
Dehydroepiandrosterone	0.003
Methyltestosterone	0.45
Cortisol	0.006
17 β -estradiol	0.012





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Cisbio Bioassays

International office
IBA
BP 32
91192 Gif-sur-Yvette / France

International Sales
Phone: +33 169 857 253
Fax: +33 169 857 521
Hotline: +33 466 796 787

France
Phone: +33 169 857 335
Fax: +33 169 857 383
Hotline: +33 466 796 787

www.iba-worldwide.com
www.ria-cis.com