

Estriol, HRP conjugate

DAG1185

Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Estriol, HRP conjugate
Antigen Description	Estriol is a hydroxylated metabolite of ESTRADIOL or ESTRONE that has a hydroxyl group at C3-beta, 16-alpha, and 17-beta position. Estriol is the main estrogen in the blood and urine of pregnant females. During pregnancy, large amount of estriol is produced by the placenta. Serum estriol determinations reflect the status of the fetus and are used to evaluate fetal distress and placental function. Estriol increases until term, reaches a plateau at the 40th week of gestation and then declines. Isomers with inversion of the hydroxyl group or groups are called epiestriol. It is used in the treatment of osteoporosis in combination with Vitamin D. Its expression also seems to be one of the direct causes of preterm labour, together with cervical ultrasound measurements and expression of Foetal Fibronectin.
Source	Natural Steroids
Conjugate	HRP
Form	concentrate
Characteristic	Each conjugate comprises antigen covalently bound to horseradish peroxide and is suitable as a tracer in immunoassay development

PACKAGING

Storage	Can be stored at 2-8°C for up to 3 months and at -20°C for longer term storage.
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BACKGROUND

Introduction	Estriol is only produced in significant amounts during pregnancy as it is made by the placenta from 16-hydroxydehydroepiandrosterone sulfate (16-OH DHEAS), an androgen steroid made in the fetal liver and adrenal glands. The human placenta produces pregnenolone and progesterone from circulating cholesterol. Pregnenolone is converted in the fetal adrenal gland into dehydroepiandrosterone (DHEA), a C19 steroid, then subsequently sulfonated to dehydroepiandrosterone sulfate (DHEAS). DHEAS is converted to 16-OH DHEAS in the fetal liver. The placenta converts 16-OH DHEAS to estriol, and is the predominant site of estriol synthesis.
Keywords	Estriol; oestriol; E3; TRIDESTRIN; (16-alpha,17-beta)-estra-1,3,5-triene-3,16,17-triol; 1,3,5-oestratriene-3-beta,16-alpha,17-beta-triol; Aacifemine; Colpogyn; Colpovister; Destriol; Estra-1,2,4-triene-3,16,17-triol; Follicular hormone; Gynasan; Hemostyptanon

REFERENCES

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2. Sicotte NL, Liva SM, Klutch R, Pfeiffer P, Bouvier S, Odesa S, Wu TC, Voskuhl RR (October 2002). "Treatment of multiple sclerosis with the pregnancy hormone estriol". Ann. Neurol. 52 (4): 421-8. DOI:10.1002/ana.10301. PMID 12325070.