

AFP IRMA

Catalog #: DE33100

The AFP IRMA system provides direct quantitative in vitro determination of human alpha-fetoprotein (AFP) in human serum.

Technology	: IRMA
Kit size	: 100 tests
Sample material	: serum
Sample preparation	: -
Sample volume	: 50 µl
Standard range	: 2 - 500 IU/ml
Incubation	: 2 h
Measuring system	: I-125
Sensitivity	: 0.12 IU/ml

Special remarks:

DESCRIPTION

The ¹²⁵I-AFP IRMA system provides direct quantitative in vitro determination of human alpha-fetoprotein (AFP) in human serum. AFP can be assayed in the range of 0-500 IU/ml using 50 µl serum samples.

INTRODUCTION

Alpha-fetoprotein (AFP) is a glycoprotein with a molecular mass of 65000. It is normally produced in large amounts by the fetal liver. AFP level increases progressively and reaches a peak at the 30th week in the maternal serum, thereafter, it decreases gradually. An elevated maternal serum AFP is associated with neural tube defect (spina bifida) and placental abnormalities, whereas the decreased AFP levels in both maternal serum and amniotic fluid are related to fetal chromosomal abnormalities.

Patients affected by liver carcinoma, testicular or ovarian teratocarcinoma commonly present high AFP levels. Although less frequently, an increased AFP concentration may also be observed in hepatitis, gastric, breast and bronchial tumors.

This kit can be used in the risk assessment of Down's Syndrome (Trisomy 21) in combination with other biochemical and ultrasound parameters as specified above,

taking also into account other data like maternal age and weight and using a validated software for Down's Syndrome risk assessment:

- Triple test: maternal serum AFP, hCG and unconjugated Estriol determination in the second trimester of pregnancy.
- Quadruple test: maternal serum AFP, hCG, unconjugated Estriol and Inhibin-A determination in the second trimester of pregnancy.
- Integrated test: maternal serum PAPP-A determination and nuchal translucency (NT) thickness measurement by an ultrasound scan in the first trimester of pregnancy and maternal serum AFP, hCG, unconjugated Estriol and Inhibin-A determination in the second trimester.

GENTAUR