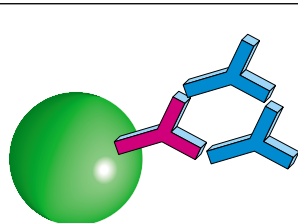


Prolactin

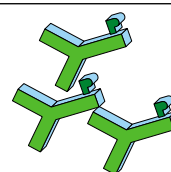


- *Broad dynamic range: 0.25-200 ng/mL*
- *Analytical sensitivity: 0.25 ng/mL*
- *Referenced to WHO, 3rd International Standard 84/500*
- *Time to first result: 30 minutes*
- *Sample type: Serum and heparinized plasma*

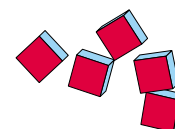
1 step
sandwich
technique



Paramagnetic particles coated with
goat anti-mouse IgG/anti-prolactin
MAb complexes



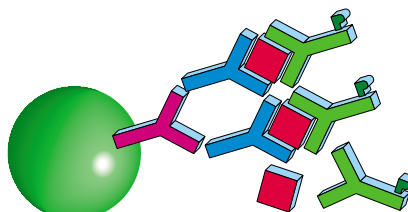
Goat anti-prolactin -
alkaline phosphatase
conjugate



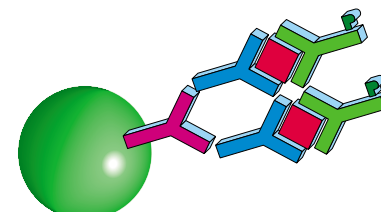
Sample
containing prolactin



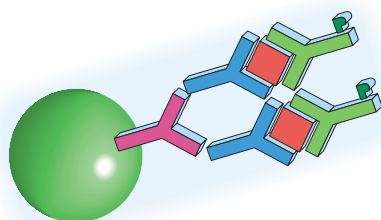
Mix and
incubate
at 36.5°C for
20 minutes



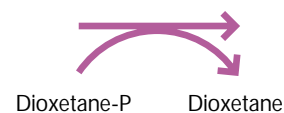
Sandwich
formation



Wash
3 times



+ Add
substrate → Incubate
5 minutes



Read light

Signal produced is directly proportional to the prolactin concentration in the sample



Prolactin

Causes of Hyperprolactinemia

Direct stimulation of pituitary lactotrope	Dopamine antagonists
Estrogen excess	Metoclopramide
Pregnancy	Sulpiride
Oral contraceptives	Primary disorders of hypothalamus and pituitary
Other estrogens	Hypothalamus
Neural influences	Craniopharyngioma
Nipple stimulation	Sarcoid and other granulomatous disorders
Chest wall trauma or surgery	Pituitary
Thoracic herpes zoster	Idiopathic hyperprolactinemia
TRH stimulation	Pituitary microadenoma
Primary hypothyroidism	Pituitary macroadenoma
Dysfunction of dopamine inhibition of prolactin release	Pituitary stalk section
Depletion of hypothalamic dopamine	Empty sella syndrome
Reserpine	Miscellaneous causes
Alpha methyl dopa (Aldomet)	Chronic renal failure
Blockade of dopamine receptor on lactotrope	
Phenothiazines and antipsychotic medications (e.g., Compazine, Thorazine, Stelazine, Mellaril, Haldol)	

TRH – thyrotropin-releasing hormone

References: Manual of Endocrinology and Metabolism, Second Edition, Norman Lavin

Characteristics

Sample Type/Size	Serum, heparinized plasma/25 µL
Time to First Result	30 minutes
Analytical Sensitivity	0.25 ng/mL
Calibrator Levels	0, 2.0, 10, 20, 100 and 200 ng/mL
Expected Range	Males: 2.6-13.1 ng/mL Females – Premenopause: 3.3-26.7 ng/mL Females – Postmenopause: 2.7-19.6 ng/mL
Open Pack Stability	28 days
Calibration Stability	28 days
Precision	< 10% CV

Ordering Information

Access® Prolactin - 2 packs of 50 tests/pack	33530
Access® Prolactin Calibrators - 1 vial of 4.0 mL and 5 vials of 2.5 mL/vial	33535
Access® Sample Diluent A - 1 vial of 4.0 mL	81908



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