

## RIAK - 10 KIT FOR HUMAN LUTEINIZING HORMONE

RIAK - 10 is BRIT's radioimmunoassay (RIA) kit for the quantitative measurement of human Luteinizing Hormone (hLH) in serum.

Human Luteinizing Hormone is a glycoprotein secreted by the  $\beta$  cells of anterior pituitary. hLH in female causes ovulation and in males it stimulates Leydig cells to produce androgens and testosterone. Measurement of hLH is useful in the management of various types of infertility related disorders.

### SALIENT ASSAY FEATURES

- Reliable, time tested liquid phase separation system
- Lyophilized kit reagents
- Clinically useful standard range (0- 100 mIU / ml) and sensitivity (4 mIU/ml)
- Quality control samples at two levels are a part of standard kit
- Economically priced

### REAGENTS PROVIDED

	COMPONENT	RIAK - 10 100 estimations	RIAK - 10 200 estimations	RIAK - 10 500 estimations
1.	Anti - hLH antibody (lyophilized)	1 vial	2 vials	5 vials
2.	<sup>125</sup> I - hLH (tracer) (lyophilized)	1 vial	2 vials	5 vials
3.	hLH free serum (lyophilized)	1 vial	2 vials	5 vials
4.	Concentrated hLH standard (300 mIU per vial, lyophilized*)	1 vial	2 vials	2 vials
5.	Control serum A & B (lyophilized)	1 vial each	1 vial each	2 vials each
6.	Anti - rabbit IgG (second antibody, lyophilized)	1 vial	2 vials	5 vials
7.	Assay buffer (ready to use)	1 vial	2 vials	5 vials
8.	Polyethylene glycol solution (ready to use)	1 vial	2 vials	5 vials

\* Working standards are prepared using the concentrated standard as per the directions in kit protocol



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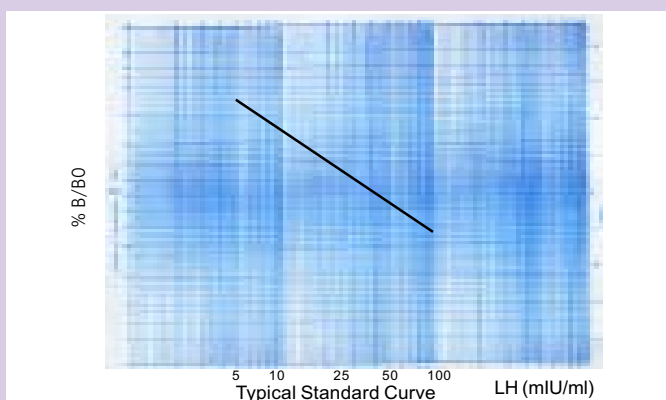
## ASSAY PROCEDURE\*\*

- Reconstitute the reagents as per the directions given in kit protocol
- Use plain polystyrene assay tubes supplied along with the kit
- Add 100 µl of respective standards, free serum, control or sample
- Add 100 µl of hLH antibody
- Vortex and incubate 2h at room temperature
- Add 100 µl of tracer, vortex and incubate for 2h at room temperature
- Add 100 µl of second antibody and 1 ml of polyethylene glycol (PEG) solution to all the tubes
- Vortex and incubate for 20 min at room temperature
- Centrifuge all the tubes for 20 min at 3000 rpm at room temperature
- Discard the supernatant and count the tubes for 1 min in a NaI (Tl) scintillation counter calibrated for I - 125
- Calculate the results

\*\* Refer to kit protocol for detailed assay procedure

## TYPICAL STANDARD CURVE DATA

Tube No.	CPM	Average CPM	Corrected average CPM	% B/Bo
Bkg	20			
Total	44107, 44207	44157	44137	
NSB	1111, 1137	1124	1104	2.5 (NSB)
0 mIU/ml	21933, 21863	21898	20774	47 (B0/T)
5 mIU/ml	20197, 20241	20219	19095	92
10 mIU/ml	18190, 18154	18172	17048	82
25 mIU/ml	15218, 15178	15198	14074	68
50 mIU/ml	7934, 7954	7944	6820	33
100 mIU/ml	5956, 6016	5986	4862	23



For placing the orders and further details please contact  
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