

## IRMAK-9

### KIT FOR HUMAN THYROID STIMULATING HORMONE (hTSH)

IRMAK-9 is BRIT's immunoradiometric assay (IRMA) kit based on antibody coated tube for the quantitative measurement of thyroid stimulating hormone in human serum.

Thyroid stimulating hormone (TSH) is responsible for providing the primary stimulus for the synthesis and secretion of thyroid hormones, thyroxine ( $T_4$ ) and triiodothyronine ( $T_3$ ). Serum measurement of TSH is useful in early detection and differential diagnosis of various types of thyroid disorders.

The kit is available in three formats: sufficient for 100, 200 and 500 estimations

#### SALIENT ASSAY FEATURES

- Only two pipetting steps
- Serum based ready to use standards stable for 3 months
- Standard range (0 - 100  $\mu$ IU/ml) and sensitivity (0.025  $\mu$ IU/ml) to cover the entire clinical need
- User-friendly assay system based on antibody coated tubes

#### REAGENTS PROVIDED

	COMPONENT	IRMAK - 9 100 estimations	IRMAK - 9 200 estimations	IRMAK - 9 500 estimations
1.	Anti TSH monoclonal antibody coated tubes (ready to use)	100 tubes	200 tubes	500 tubes
2.	$^{125}$ I - Anti TSH antibody (tracer) (ready to use)	1 vial	2 vials	5 vials
3.	TSH standards in serum, 8 vials of following concentration : 0, 0.15, 0.5, 1.5, 5, 15, 50 and 100 $\mu$ IU/ml (ready to use)	1 vial each	1 vial each	2 vials each
4.	Control serum A & B (lyophilized)	1 vial each	1 vial each	2 vials each
5.	Wash concentrate	1 vial	2 vials	5 vials



Radiopharmaceutical laboratory, BRIT, Vashi, Navi Mumbai.



# BRIT

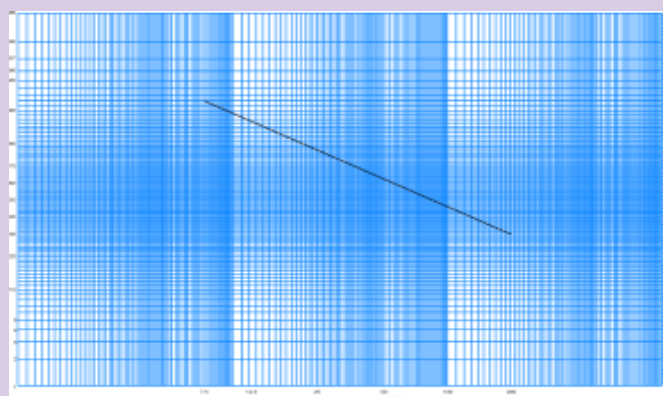
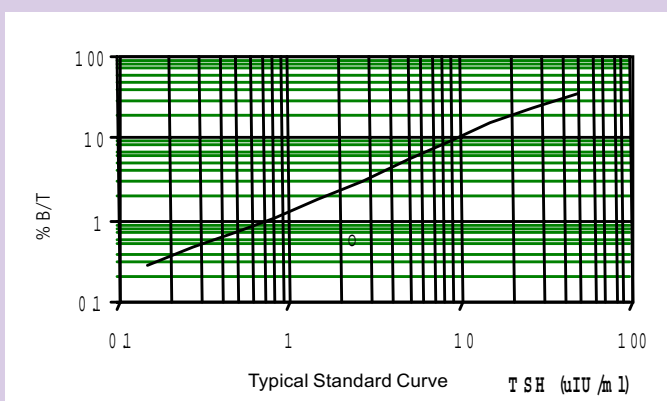
### ASSAY PROCEDURE\*

- Use anti - TSH antibody coated tubes supplied along with the kit
- Add 200  $\mu$ l of standard, control or sample
- Add 100  $\mu$ l of tracer
- Vortex and incubate for two hours at room temperature with gentle shaking at 350 rpm
- Add 2 ml of diluted wash solution to all the tubes and mix
- Discard the wash solution (washing step)
- Repeat the washing step once again
- Count the tubes for 1 min. in a gamma counter calibrated for I - 125
- Calculate the results

\* For detailed assay procedure refer to kit protocol

### TYPICAL STANDARD CURVE DATA

	CPM	Average CPM	% B/T
Total	89562,89487	89525	
0 $\mu$ U/ml	62,85	74	0.08
0.15 $\mu$ U/ml	270,234	252	0.28
0.5 $\mu$ U/ml	619,706	663	0.74
1.5 $\mu$ U/ml	1637,1625	1631	1.82
5 $\mu$ U/ml	4879,5136	5008	5.59
15 $\mu$ U/ml	13874,14017	13946	15.6
50 $\mu$ U/ml	33207,33423	33315	37.2
100 $\mu$ U/ml	43979,44370	44175	49.3



For placing the orders and further details please contact  
Customer Support Services Cell (CSSC)

**Board of Radiation and Isotope Technology**

V.N.Purav Marg, Mumbai-400 094

Tel: (022) 2556 9806, 2551 2993, 2557 3534, 2556 5535 • Fax: (022) 2556 2161, 2558 1319

E-mail:sales@britatom.com • Website : www.britatom.com