

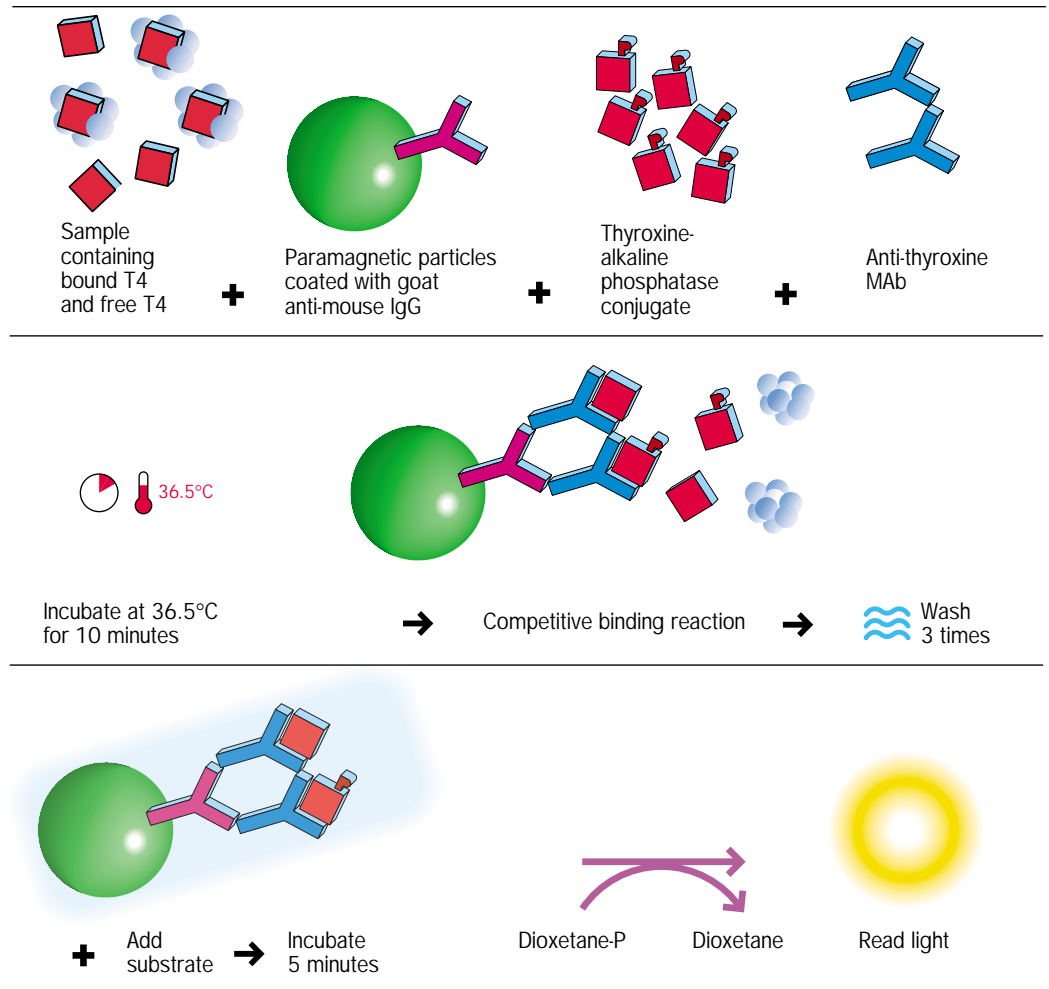


# Total T4

Bulletin 9271

- Calibration stability: 21 days
- Time to first result: 20 minutes
- Dynamic range: 0.50-30.0 µg/dL
- Reproducibility: < 10% total imprecision

1 step  
competitive  
binding  
technique



Signal produced is inversely proportional to the total T4 concentration in the sample.



# Total T4

## Performance

### Method Comparison

Comparison of thyroxine values obtained by assaying clinical samples using the Access Total T4 assay and a commercially available enzyme immunoassay kit gives the following statistical data:

n	Range of Observations (µg/dL)	Intercept (µg/dL)	Slope	r
164	1.44 – 22.45	0.65	0.95	0.97

### Precision

One study provided the following data, analyzed via analysis of variance:

Commercially Available Human-serum-based Control	Grand Mean (n = 60) (µg/dL)	Within Run (% CV)	Total Imprecision (% CV)
Low	3.05	5.08	6.63
Medium	6.47	4.39	5.55
High	12.55	3.16	4.01

### Expected Values

Concentrations of total T4 were measured in sera from 533 presumably healthy subjects. The median value was 8.36 µg/dL (107.59 nmol/L) with a 95% non-parametric range of 6.09-12.23 µg/dL (78.38-157.40 nmol/L).

## Characteristics

Sample Type/Size	Serum /30 µL
Time to First Result	20 minutes
Analytical Sensitivity	0.50 µg/dL
Calibrator Levels	0, 2.0, 4.0, 8.0, 16, 30 µg/dL
Open Pack Stability	14 days
Calibration Stability	21 days
Precision	< 10% CV

## Ordering Information

Access® Total T4 - 2 packs of 50 tests/pack	33800
Access® Total T4 Calibrators - 6 vials of 4.0 mL/vial	33805



Eastern Europe, Middle East, North Africa: Switzerland, Nyon (41) 22 994 0707. Australia, Gladesville (61) 2 9844 6000. Canada, Mississauga (1) 905 819 1234. China, Beijing (86) 10 6515 6028. Hong Kong (852) 2814 7431, 2814 0481. France, Villepinte (33) 1 49 90 90 00. Germany, Krefeld (49) 2151 33 35. Italy, Milan (39) 02 953921. Japan, Tokyo (81) 3 5404 8424. Latin America (1) (305) 380 4709. Mexico, Mexico City (525) 575 6805. Netherlands, Mijdrecht (31) 297 230630. Singapore (65) 6339 3633. South Africa/Sub-Saharan Africa, Johannesburg (27) 11 805 2014. Sweden, Bromma (46) 8 564 85 900. Switzerland, Nyon 0800 850 810. Taiwan, Taipei (886) 2 2378 3456. Turkey, Istanbul (90) 216 309 1900. UK, High Wycombe (44) 01494 441181. USA, Brea, CA (1) 800 352 3433, (1) 714 993 5321.