510(k) SUBSTANTIAL EQUIVALENCE DETERMINATION DECISION SUMMARY DEVICE ONLY TEMPLATE

A. 510(k) Number:	K032697
B. Analyte:	Triiodothyronine (T3)
C. Type of Test:	N/A
D. Applicant:	Dade Behring Inc.

E. Proprietary and Established Names: Dade Behring Dimension® Total Triiodothyronine (T3) Calibrator (RC414)

F. Regulatory Information:

1.	Regulation section:	§862.1150, Calibrator, Primary
2.	Classification:	Class II
3.	Product Code:	JIS
4.	Panel:	75 (Chemistry)

G. Intended Use:

1. Indication(s) for use:

The T3 Calibrator is intended for use in the calibration of Total Triiodothyronine (T3) method on the Dimension® clinical chemistry system with the Heterogeneous Immunoassay Module.

2. <u>Special condition for use statement(s):</u> None

3. <u>Special instrument Requirements:</u> Dade Behring Dimension® clinical chemistry system with the Heterogeneous Immunoassay Module.

H. Device Description:

The Dimension® Total Triiodothyronine (T3) Calibrator (RC414) is a liquid product. The kit consists of 10 vials, two each at levels 1 through 5. Level 1 vials contain 2mL of stripped human serum. Vials for levels 2 through 5, contain 1 mL with concentrations of L-Triiodothyronine in a stripped human serum base.

I. Substantial Equivalence Information:

- 1. <u>Predicate device name(s):</u> Opus Total T3 Calibrator
- 2. Predicate K number(s):K953160
- 3. Comparison with predicate:

	Dimension® T3	Opus Total T3 Calibrator
	Calibrator	
Intended Use	Calibrator	Calibrator
Analyte	T3	T3
Matrix	Stripped human serum base	Stripped human serum base
Form	Liquid	Liquid
Volume	2 mL per vial @ level 1, 1	2 mL per vial @ level 1, 1
	mL per vial @ levels 2-5	mL per vial @ levels 2-6
Levels	5 levels @ 0, 1, 2, 4, 6.5	6 levels @ 0, 0.5, 1, 2, 4, 6
	ng/mL	ng/mL

J. Standard/Guidance Document Referenced (if applicable):

FDA guidance "Abbreviated 510(k) submissions for In Vitro Diagnostic Calibrators"

K. Test Principle: N/A

L. Performance Characteristics (if/when applicable):

- 1. <u>Analytical performance:</u>
 - a. Precision/Reproducibility: N/A
 - b. Linearity/assay reportable range: N/A
 - c. Traceability (controls, calibrators, or method):

The assigned values are referenced to USP L-Triiodothyronine (USP Catalog # 36800). Users of this product will be notified if there is a change in the assigned values. Systeme International d'Unites Conversion factor: $ng/mL \ge 1.536 = nmol/L$

- d. Detection limit: N/A
- e. Analytical specificity: N/A

	f.	Assay cut-off: N/A	
2.	Comparia.	ison studies: Method comparison with predicate device:	N/A
	b.	Matrix comparison:	<i>N/A</i>
3.	<u>Clinical</u> a.	<u>studies:</u> Clinical sensitivity:	N/A
	b.	Clinical specificity:	N/A
	c. Other clinical supportive data (when a and b are not applica		are not applicable):

- 4. <u>Clinical cut-off:</u> N/A
- 5. Expected values/Reference range:

The following table shows the calibrator values obtained on the Dimension® Clinical Chemistry System with Heterogeneous Immunoassay Module. Please note the assignment is absolute, there is no range:

	Assigned Value	Units	Assigned Value	SI Units
Level 1	0	ng/mL	0	nmol/L
Level 2	1	ng/mL	1.5	nmol/L
Level 3	2	ng/mL	3.1	nmol/L
Level 4	4	ng/mL	6.1	nmol/L
Level 5	6.5	ng/mL	9.9	nmol/L

M. Conclusion:

Based on the information provided, I recommend that the Dade Behring Dimension® Total Triiodothyronine (T3) Calibrator is substantially equivalent to the Opus Total T3 Calibrator (K953160) predicate device.