

## RUO Microplate/Manual Applications

### L-Type TG M Manual Procedure

For Research Use Only. Not for use in diagnostic procedures.

Cat. No. 994-02891/992-02892 **L-Type Triglyceride M Enzyme Color A (R1)**

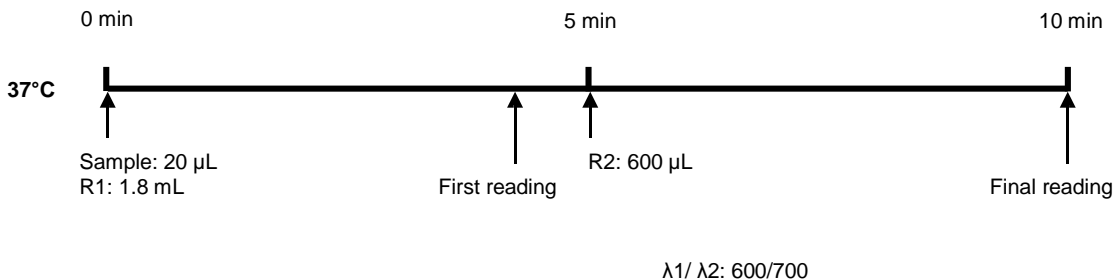
Cat. No. 990-02991/998-02992 **L-Type Triglyceride M Enzyme Color B (R2)**

Cat. No. 464-01601 **Multi-Calibrator Lipid** (Used for standard/calibration curve)

1. Pipette 20 µL of each of the following into the assigned pre-labeled test tubes: saline or water (to be used as blank), each level of calibrator, and sample.
2. Add 1.8 mL of R1 (Color A) to each test tube.
3. Mix well and incubate for 5 min. at 37°C.
4. Measure the absorbance of Sample (Asam1) and Calibrator (Acal1) against Blank (Ablk1) at 600nm. Use 700nm as the reference or secondary wavelength\*.
5. Add 600 µL of R2 (Color B) to each test tube.
6. Mix well and incubate for 5 min. at 37°C.
7. Measure the absorbance of Sample (Asam2) and Calibrator (Acal2) against Blank (Ablk2) at 600nm. Use 700nm as the reference or secondary wavelength\*.
8. Calculate sample concentration by the following formula:

$$\text{Sample Conc.} = [(Asam2) - (Asam1) / (Acal2) - (Acal1)] \times \text{Cal. Concentration (Multi-calibrator Lipid)}$$

#### Basic procedure outline:



*\*Note: The secondary absorbance reading at 700nm is only for bichromatic measurement to correct for any serum interferences. Absorbance readings taken at 700nm should be subtracted from the absorbance readings taken at 600nm.*