

wavelength	Absorbance
400	0.119
425	0.141
450	0.186
475	0.330
500	0.459
525	0.426
550	0.239
575	0.044
600	0.11

495

Plot requirement: figure one
show concentration
in the caption

figure 2.

Calibration Plot.

$$③ y = mx + b$$

$$\frac{y-b}{m} = x = \frac{(0.233 - 0.0007)}{0.0452 \text{ } \frac{\mu\text{m}}{\text{mg}}}$$

$$= 5.14 \text{ mg RD40/L}$$

$$(5.14 \text{ mg/L}^{\text{AD}}) (10) = 51.4 \text{ mg RD40/L} = 10.12 \text{ mg/L}$$

↓
Pool-Aid

Acceptable Dietary Intake (ADI)

$$\text{RD 40 } 7.0 \text{ mg/kg}$$

The weight of sample dry

$$= 0.0448 \text{ g.}$$

① stock standard calc:

$$\frac{101.2 \text{ mg}}{\text{L}} = 101.2 \text{ mg/L}$$

② Working std calc:

$$C_2 = \frac{C_1 V_1}{V_2} \quad \text{Flask \#1}$$

$$C_2 = \frac{(101.2 \text{ mg/L})(1.00 \text{ mL})}{100.0 \text{ mL}} = 1.012 \text{ mg/L}$$

Flask \#2

$$C_2 = \frac{(101.2 \text{ mg/L})(5.00 \text{ mL})}{100.0 \text{ mL}}$$

Flask \#3

$$C_2 = \frac{(101.2 \text{ mg/L})(10.00 \text{ mL})}{100.0 \text{ mL}}$$

Flask \#4

$$C_2 = \frac{(101.2 \text{ mg/L})(15.00 \text{ mL})}{100.0 \text{ mL}} = 15.18 \text{ mg/L}$$