Calc: Units in Crude extract. ⇒ want $\frac{\mu mole}{min}$.

40 gm
↓ grind
81 mL of homogenate
↓ centrifuge
65 mL of supernatant. (80%) → undiluted

	ΔA/min	ΔA/s	time to zero (time of assay)	total Dil.
undiluted	16	.27	~2 sec	1
↳ 1/4	4	.067	~9 sec.	4x
↳ 1/10	.4	.007	~1.5 min	40
↳ 1/10	**.04**	.0007	15 min	400

good rate. (ΔA/min)

$A = C \varepsilon_{app} l$

$\frac{A}{\varepsilon_{app}} = C$ ⇒ rate $\frac{\Delta A}{min} \cdot \frac{1}{\varepsilon} = \frac{\mu mole}{mL \cdot min}$

$\varepsilon = 6200\ M^{-1} cm^{-1}$
$= 6.2 \left(\frac{\mu mole}{mL}\right)^{-1} cm$
$\varepsilon_{App} = 6.2 \left(\frac{\mu mole}{mL}\right)^{-1}$
if $l = 1.0$ cm

$$\frac{.04 \frac{\Delta A}{min} \times 400}{6.2 \frac{\mu mole}{mL}} = 2.58 \frac{\mu mole}{mL \cdot min} \text{ in 3mL of assay of undiluted crude extract}$$

$2.58 \frac{\mu mole}{mL \cdot min} \times 3\ mL$

LDH units/mL = ΔA/min x 372
if always use 50μL in 3.0 mL assay (6.2 x (3.0/0.05))

= 7.74 μmole/min from 50μL of undiluted crude extract

7.74 units / .05 mL

= 155 units / mL of crude extract

155 units / mL x 65 mL in S.F.

= 10,062 units

10,000 Units / .80

= 12,500 Units in crude extract.

OR 12,500 / 40a = 310 Units / gm