

Lab 03: Enzyme Lab

Table 1

| Rxn # | ONPG In Rxn | Vol. 4 mg/mL ONPG Stock | Enzyme (culture volume) | Lysis Reagent | Z buffer to bring to 1 mL total | Concentration of ONPG in Tube (M) (301 g/mol) X |
|-------|-------------|-------------------------|-------------------------|---------------|---------------------------------|---|
| 1 | 0.1 mg | 25 uL | 30 uL | 10 uL | 935 uL | 3.32 E -4 M |
| 2 | 0.2 mg | 50 uL | 30 uL | 10 uL | 910uL | 6.64 E-4 M |
| 3 | 0.4 mg | 100 uL | 30 uL | 10 uL | 860 uL | 1.33 E-4 M |
| 4 | 0.8 mg | 200 uL | 30 uL | 10 uL | 760uL | 2.66 E-3 M |
| 5 | 1.2 mg | 300 uL | 30 uL | 10 uL | 660uL | 3.99 E -3M |
| Blank | 0.4 mg | 100 uL | 30 uL media | 10 uL | 860uL | 1.33 E-3 M |

Table 2

| Rxn # | Time started | Time stopped | Elapsed time | A _{420nm} | Activity Y |
|-------|--------------|--------------|--------------|--------------------|------------|
| 1 | 0.00 sec | 1200 sec | 1200 sec | 0.14 | 0.1166 |
| 2 | 0.10sec | 1200 sec | 1190 sec | 0.13 | 0.1092 |
| 3 | 0.25 sec | 1200 sec | 1175 sec | 0.17 | 0.1446 |
| 4 | 0.37 sec | 1200 sec | 1163 sec | 0.25 | 0.2149 |
| 5 | 0.49 sec | 1200 sec | 1151 sec | 0.26 | 0.2258 |

Table 3

| Rxn # | ONPG In Rxn | Vol. 4 mg/mL ONPG stock | Enzyme (culture volume) X | Lysis Reagent | Z buffer to bring to 1 mL total |
|-------|-------------|-------------------------|---------------------------|---------------|---------------------------------|
| 1 | 0.4 mg | 100 mL | 3 uL | 10 uL | 887 uL |
| 2 | 0.4 mg | 100 mL | 10 uL | 10 uL | 880 uL |
| 3 | 0.4 mg | 100 mL | 30 uL | 10 uL | 860 uL |
| 4 | 0.4 mg | 100 mL | 100 uL | 10 uL | 790 uL |
| Blank | 0.4 mg | 100 mL | 30 uL media | 10 uL | 860 uL |

Table 4

| Rxn # | Time started | Time stopped | Elapsed time | A _{420nm} | Activity Y |
|-------|--------------|--------------|--------------|--------------------|------------|
| 1 | 0.00 sec | 2700 sec | 2700 sec | 0.02 | 0.0074 |
| 2 | 0.21 sec | 2304 sec | 2304sec | 0.10 | 0.0434 |
| 3 | 0.40 sec | 1828 sec | 1828 sec | 0.11 | 0.0602 |
| 4 | 0.55 sec | 1022 sec | 1022 sec | 0.18 | 0.1761 |

1. Graph the results of each experiment. Make sure to title your graph and label the axes. The y-axis will be activity and the x-axis will be either substrate

Lab 9 Enzymes Answers

M Mark



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