Enzymes in Pancreatins

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# Enzymes

I have tested the activities of all the enzymes available and below are the results:

## Old Pancreatin (P1750-100G)

lot number: SLBR5608V

|  |  |
| --- | --- |
| Enzyme | Activity (U/mg) |
| Amylase | 24.2 |
| Trypsin | 2.2 |
| Chymotrypsin | 1.0 |
| Lipase | 32.2 |

## New Pancreatin (P7545-100G)

lot number: SLBM0006V

|  |  |
| --- | --- |
| Enzyme | Activity (U/mg) |
| Amylase | 66.6 |
| Trypsin | 4.1 |
| Chymotrypsin | 2.1 |
| Lipase | 64.9 |

## New Individual Enzymes Purchased Last Year

|  |  |  |
| --- | --- | --- |
| Enzyme | Activity (U/mg) | Product Code & Lot# |
| Amylase | 107.1 | A9857-MU SLBZ1496 |
| Trypsin | 111.1 | T0303-10G SCCBF350 |
| Chymotrypsin | 45.6 | C4129-10G SLBV2540 |

If we use the new pancreatin, and based on the activity of trypsin (100 U/mL), we need to add 100\*40/4.1 = 976 mg in one tube. The activity of **amylase and chymotrysin** will be **lager** than the recomended values, but the activity of **lipase** will be **smaller**. One bottle is 100 G, so we can perform about **100** tubes totally using one bottle of this new pancreatin.

# Sample for the Test

I am going to test it with oat flour and oat bread (commercial oat bread)