Sequence	Order	Sample	[Product] (mM)	[Enzyme] (mg/mL)
		1 Buffer	0	-
		2 Cal-1	1,5	-
		3 Cal-2	1,2	-
		4 Cal-3	0,9	-
		5 <mark>Cal-4</mark>	0,6	-
		6 Cal-5	0,3	-
		7 Buffer	0	-
		8 Enzyme 1	To be calculated	0,12
		9 Buffer	0	-
		10 Enzyme 2	To be calculated	0,2
		11 Buffer	0	-

Detected peaks

	Buffer	Cal-1	Cal-2	С	al-3	
	1,6012	0,451	2	0,8517		1,1097
	1,6040	0,428	7	0,8151		1,0760
	1,6063	0,441	1	0,7821		1,0599
	1,6011	0,449	3	0,8157		1,0732
	1,5987	0,456	5	0,7959		1,0846
	1,6203	0,450	3	0,7834		1,1003
	1,6059	0,4472	2	0,7826		1,1002
	1,6504	0,441	3	0,7839		1,0830
	1,6096	6 0,435	6	0,7659		1,0869
	1,6154	0,430	3	0,7748		1,0754
age						

Average

Product (mM) Activity (µmol·s-1·mg-1)

Parameters

Reaction time

4 min

Visualized data

Cal-4 Cal-5 Buffer		Enzyme 1	Buffer	Enzyme 2	Buffer
1,3497 1,5202	1,6581	1,0675	1,5084	0,7857	1,4512
1,2778 1,4962	1,6310	1,0096	1,5539	0,7707	1,5199
1,3116 1,4665	1,6435	0,9797	1,5499	0,7426	1,5520
1,2890 1,4579	1,6354	0,9770	1,5935	0,7532	1,5669
1,2337 1,4831	1,5797	0,9738	1,6050	0,8608	1,5978
1,3331 1,4690	1,6503	0,9648	1,6444	0,7062	1,6033
1,3396 1,4789	1,5723	0,9662	1,6214	0,7087	1,5885
1,3509 1,4785	1,5921	0,9642	1,6222	0,7171	1,6017
1,3090 1,4653	1,6599	0,9574	1,6501	. 0,7142	1,6049
1,3268 1,4587	1,6448	0,9364	1,6198	0,7086	1,6223
]

Procedure

1. Calculate the ave

Note: Calculate the was one sample.

2. Construct the cal dependence of sign concentration) with regression curve.

Note: Include also t concentration.

3. Determine [P] de Enzyme 2.

4.Based on this infc specific activities ac formula:

?= [?]/(?·[?])

a = specific activity
[P] = product conce
t = reaction time
[E] = enzyme conce

Note: the specific a in units of [µmol·s-1 which units do you

5. Compare both er

rage of each sample.

average of all buffers as if it

ibration curve (the Ial on [P] - product either linear or quadratic

he buffers with zero product

veloped by Enzyme 1 &

ormation, calculate their cording to the following

ntration

entration

ctivitity should be expressed ...mg-1], so double-check input into the fomula.

ızymes.