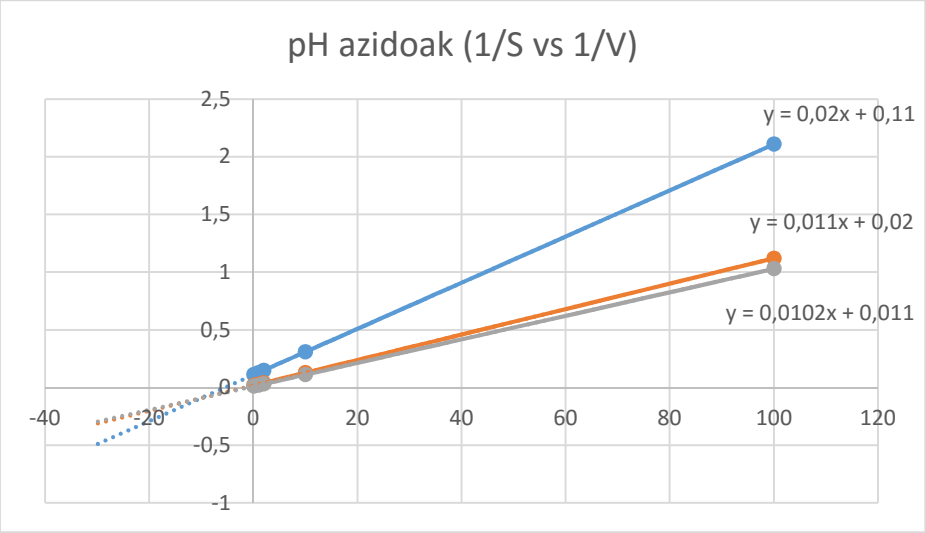
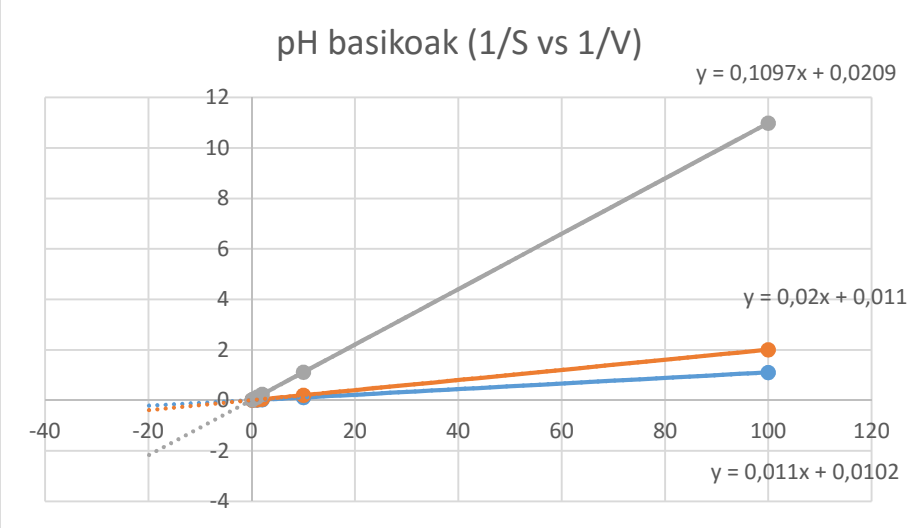
6.ariketa

	1/v					
pH	100	10	2	1	0,1	1/[S]
5	2,109704641	0,3099814	0,1499925	0,1300052	0,11199462	
6	1,121076233	0,13010669	0,042020338	0,03101064	0,02110194	
7	1,030927835	0,11300712	0,031409995	0,02120981	0,01202993	
8	1,111111111	0,12029352	0,032219609	0,02120981	0,01130097	
9	2,012072435	0,21101498	0,0510126	0,03101064	0,01301016	
10	10,98901099	1,11982083	0,239980802	0,1300052	0,03100102	

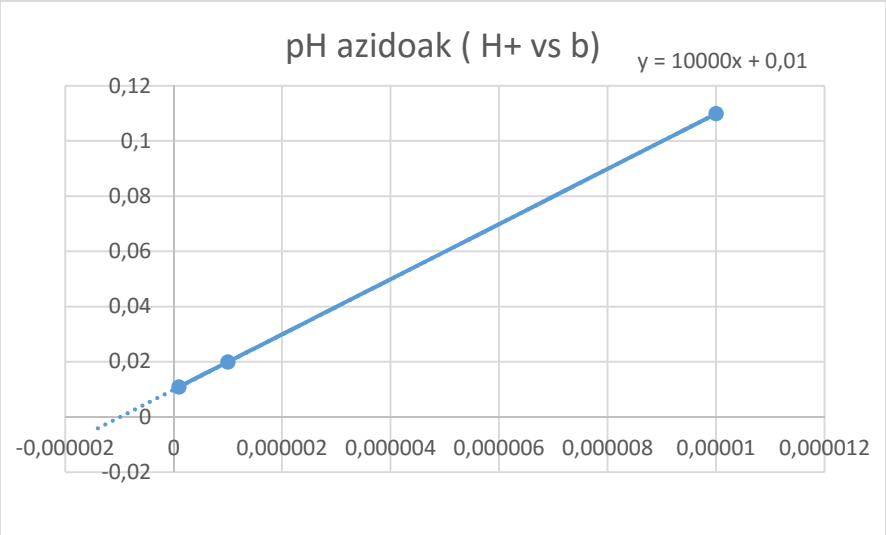


Zuzenek elkar ebakitzen duteneko x puntua=-1/αKs= -10 → αKs=0,1M



Zuzenek elkar ebakitzen duteneko x puntua=-1/βKs= -2,3 → βKs=0,43M

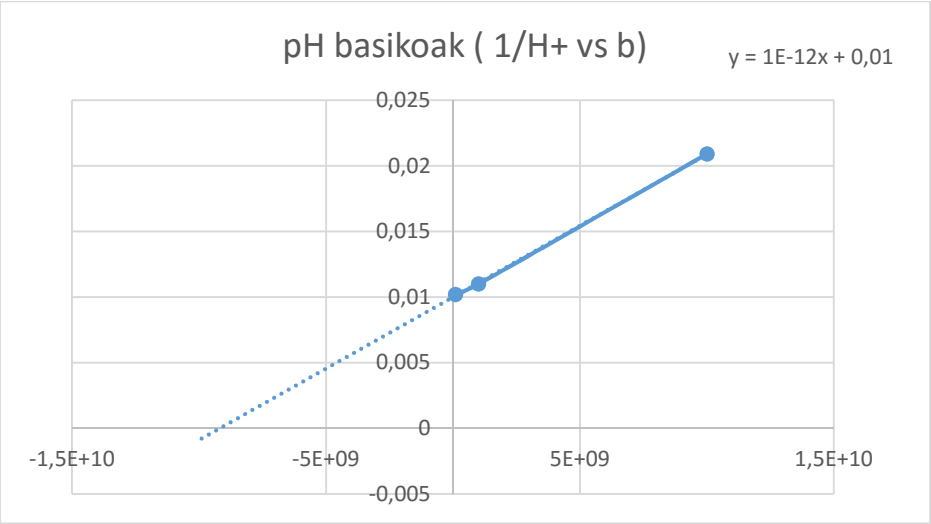
[H+]	b
0,00001	0,11
0,000001	0,02
0,0000001	0,011



X ebaki puntua=-KES1=-10^{-6} → KES1=10^{-6} M

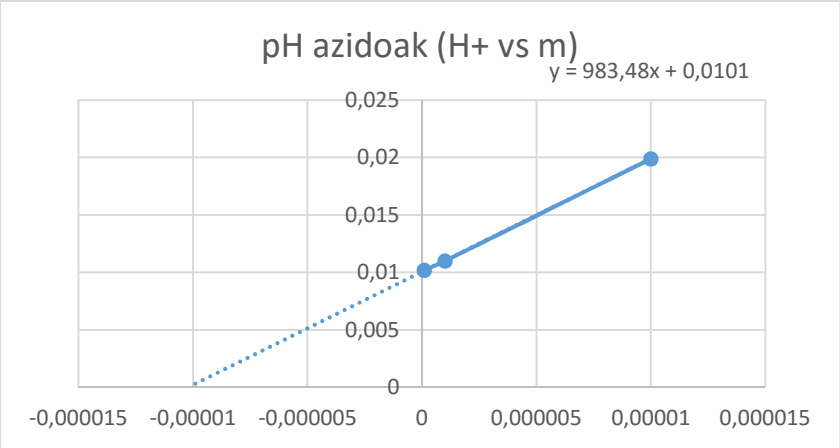
b= 1/Vmax= 0.01 → Vmax=100µmol prod/min·mg prot

1/[H+]	b
100000000	0,0102
1000000000	0,011
10000000000	0,0209



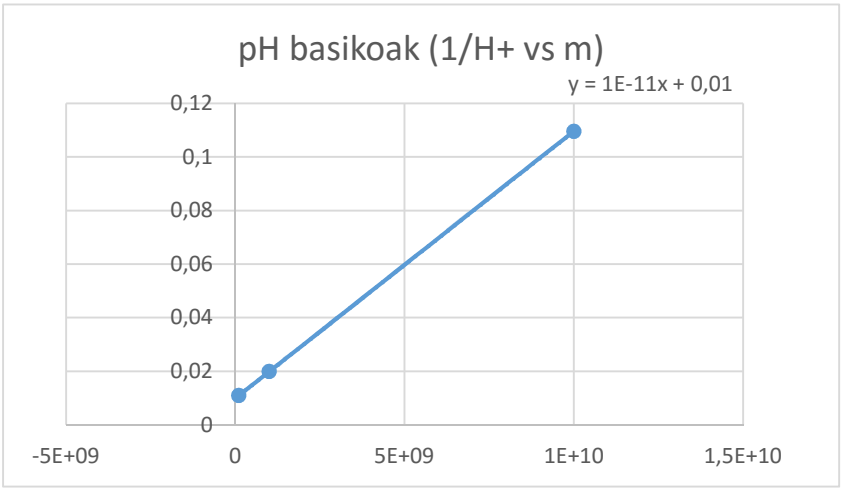
X ebaki puntua= -1/KES2=-10^{-10} → KES2=10^{-10}M

[H+]	m
0,00001	0,0199
0,000001	0,011
0,0000001	0,0102



X ardatz ebaki puntua=-KE1= $-1.03 \cdot 10^{-5}$ → KE1=$1.03 \cdot 10^{-5} M$

1/[H+]	m
100000000	0,011
1000000000	0,0199
10000000000	0,1096



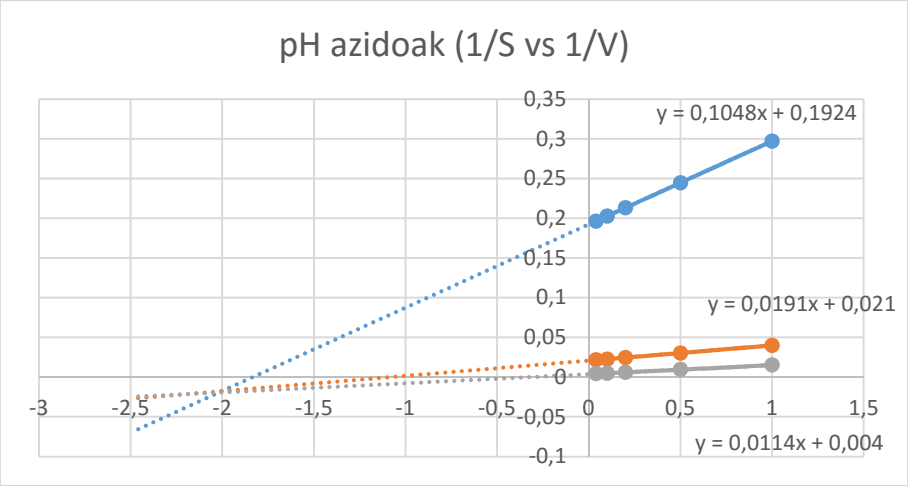
X ardatzaren ebaki puntua= -1/KE2= -10^{-9} → KE2=10^{-9}M

α= KES1/KE1=$10^{-6}/1.03 \cdot 10^{-6}$= 0.097 → α=0.097

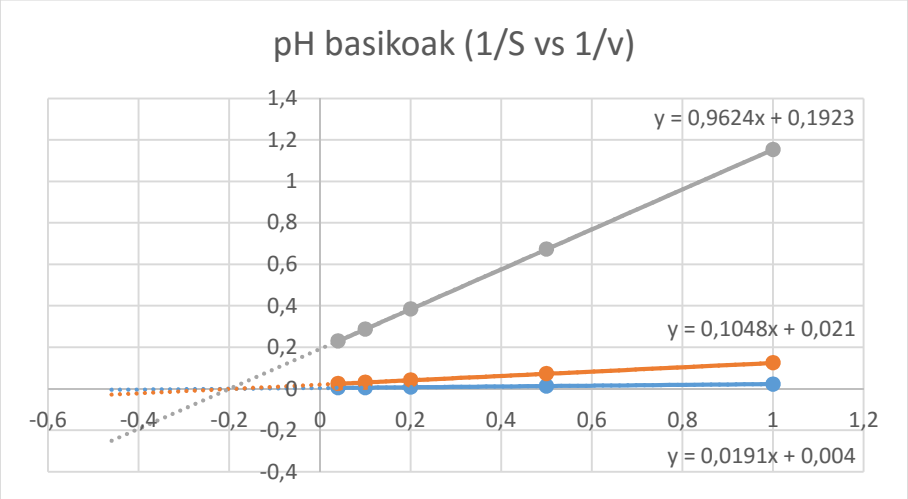
β=KE2/KES2= $10^{-9}/10^{-10}$= 10 → β=10

7.ariketa

	1/v					
pH	1	0,5	0,2	0,1	0,04	1/S
5	0,29717682	0,244798042	0,21335609	0,20283976	0,19657952	
6	0,04011392	0,030542745	0,02479974	0,02288591	0,02173724	
7	0,01542853	0,009714302	0,00628571	0,00514287	0,00445714	
8	0,02314279	0,013571467	0,00782859	0,00591429	0,00476572	
9	0,12573871	0,073356808	0,04192521	0,03144852	0,0251623	
10	1,15473441	0,673400673	0,38476337	0,28860029	0,23084026	

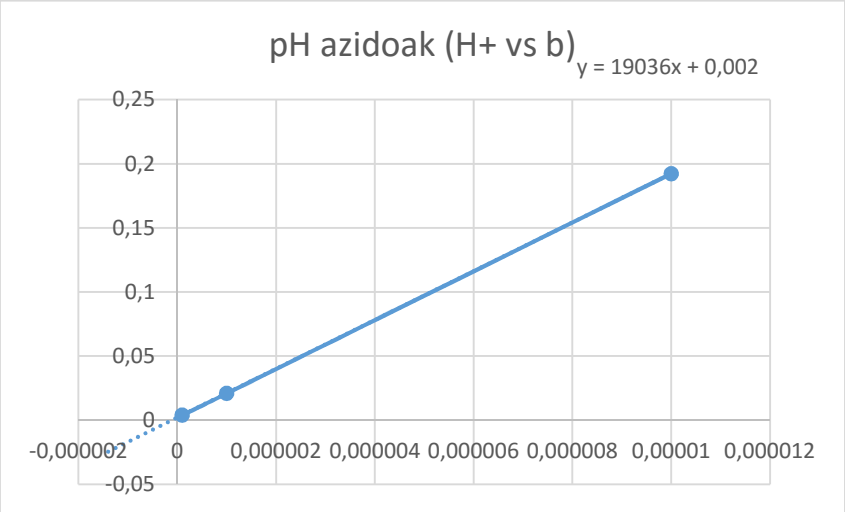


Zuzenek elkar ebakitzen duteneko x puntua=-1/αKs=-2,1 → αKs=0.48M



Zuzenek elkar ebakitzen duteneko x puntua=-1/βKs=-0.2 → βKs=5M

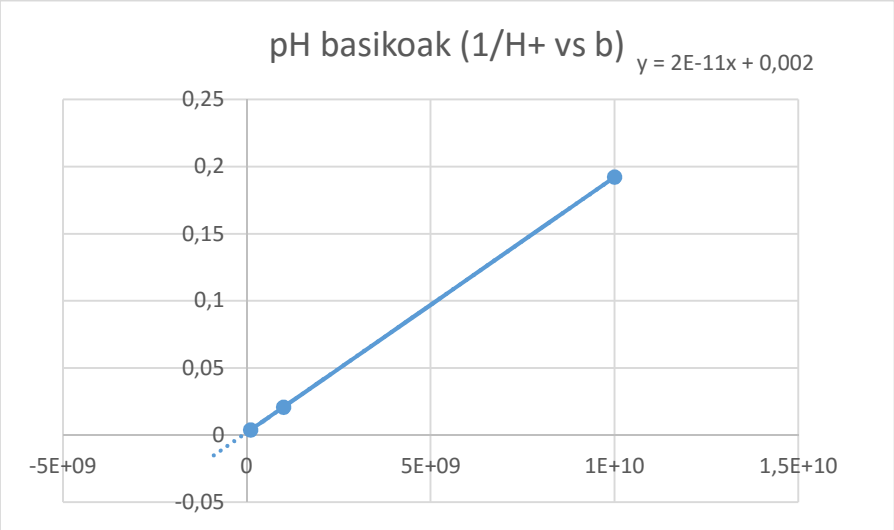
[H+]	b
0,00001	0,1924
0,000001	0,021
0,0000001	0,004



b= 1/Vmax= 0.002→ Vmax= 500µmol prod./min·mg prot.

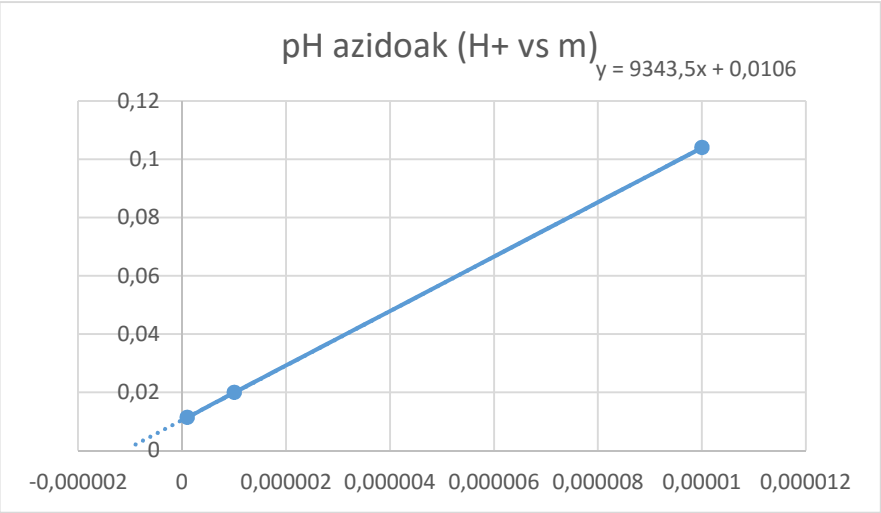
X ardatzaren ebaki puntua= -KES1= $-1{,}05 \cdot 10^{-7}$ → KES1=$1{,}05 \cdot 10^{-7}$M

1/[H+]	b
100000000	0,004
1000000000	0,021
10000000000	0,1923



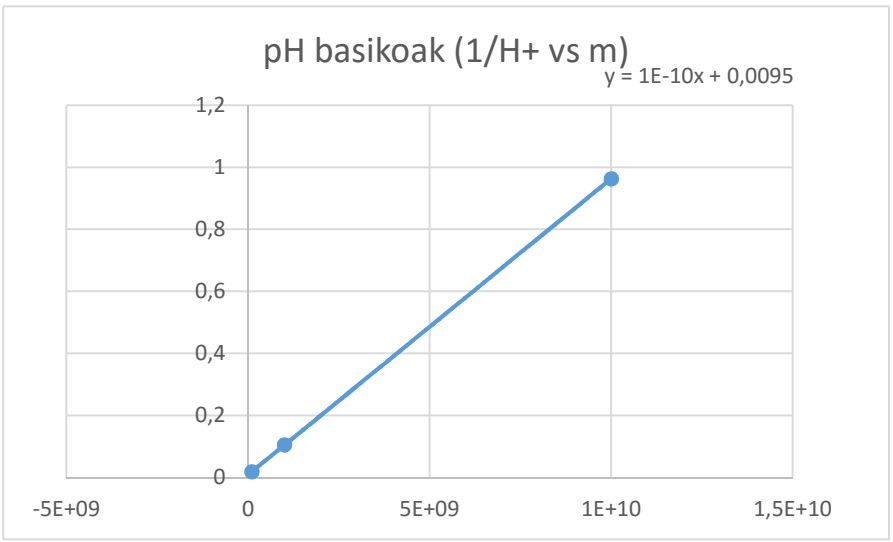
X ardatzaren ebaki puntua= -1/KES2=- 10^{8} → KES2= 10^{-8}M

[H+]	m
0,00001	0,104
0,000001	0,02
0,0000001	0,01143



X ardatzaren ebaki puntua= -KE1= $1{,}13 \cdot 10^{-6}$ → KE1=$1{,}13 \cdot 10^{-6}$M

1/H+	m
100000000	0,019
1000000000	0,1048
10000000000	0,9626



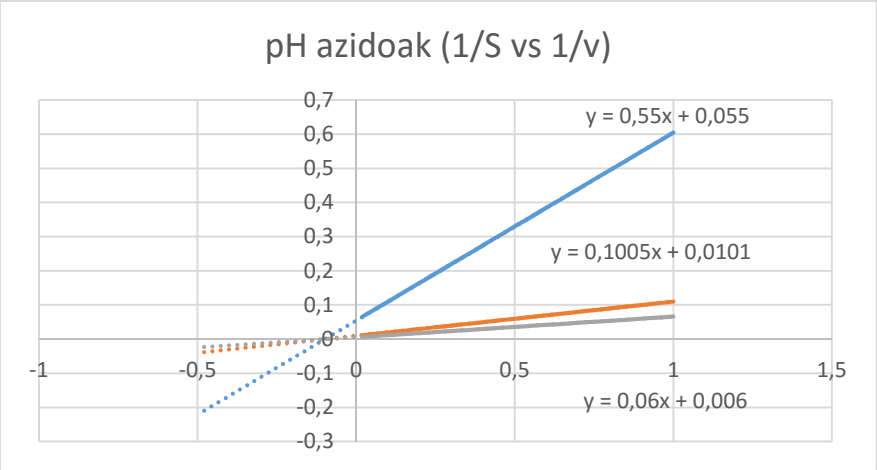
X ardatzaren ebaki puntua= -1/KE2= $-9.5 \cdot 10^{-7}$ → KE2= $1{,}05 \cdot 10^{-8}$M

α= KES1/KE1= $1{,}05 \cdot 10^{-7}/1{,}13 \cdot 10^{-6}$= 0.0929 → α= 0.0929

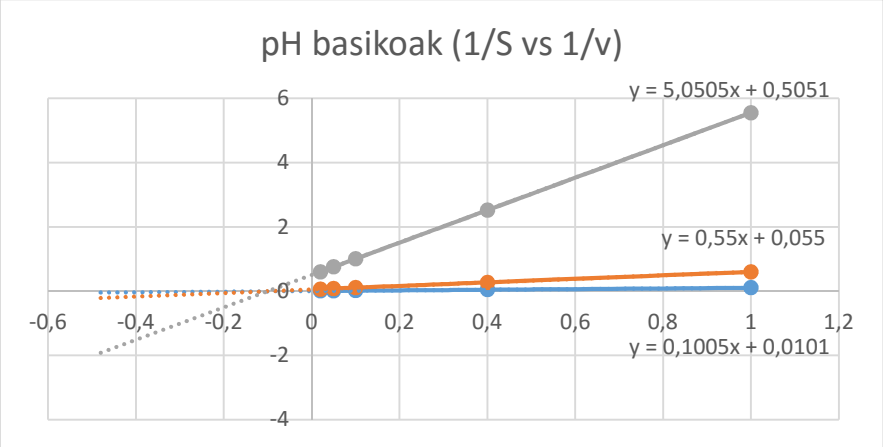
β= KE2/KES2= $1{,}05 \cdot 10^{-8}/10^{-8}$= 1.05 → β=1.05

8. ariketa

	1/v					
pH	1	0,4	0,1	0,05	0,02	1/S
5	0,60496068	0,2750275	0,110011	0,08250825	0,0660066	
6	0,1105461	0,05025126	0,0201001	0,015075	0,01205996	
7	0,06599789	0,0300003	0,01200005	0,00900001	0,00719999	
8	0,1105461	0,05025126	0,0201001	0,015075	0,01205996	
9	0,60496068	0,2750275	0,110011	0,08250825	0,0660066	
10	5,55555556	2,52525253	1,01010101	0,75757576	0,60606061	

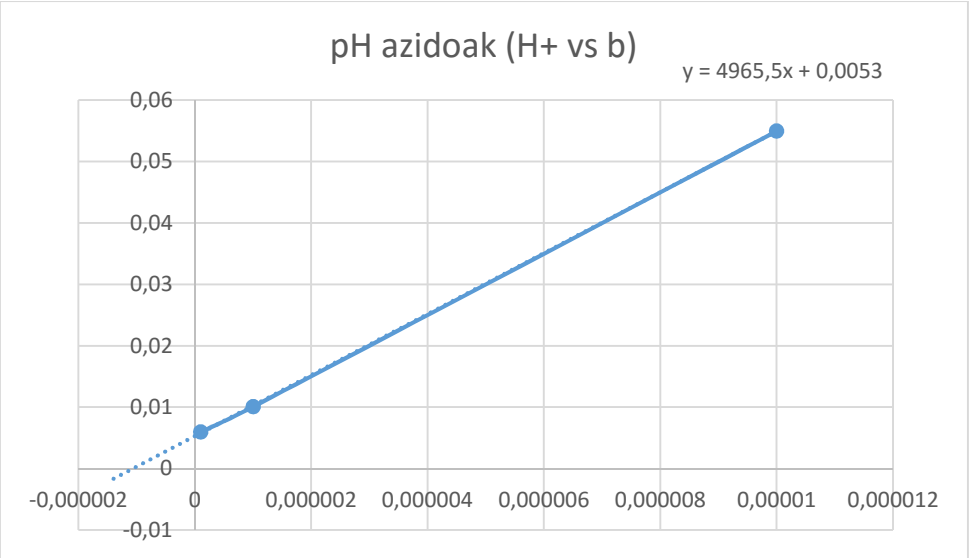


Zuzenek elkar ebakitzen duteneko x puntua= -1/αKs= -0.1 → αKs=10M



Zuzenek elkar ebakitzen duteneko x puntua= -1/βKs=-0.5 → βKs= 10M

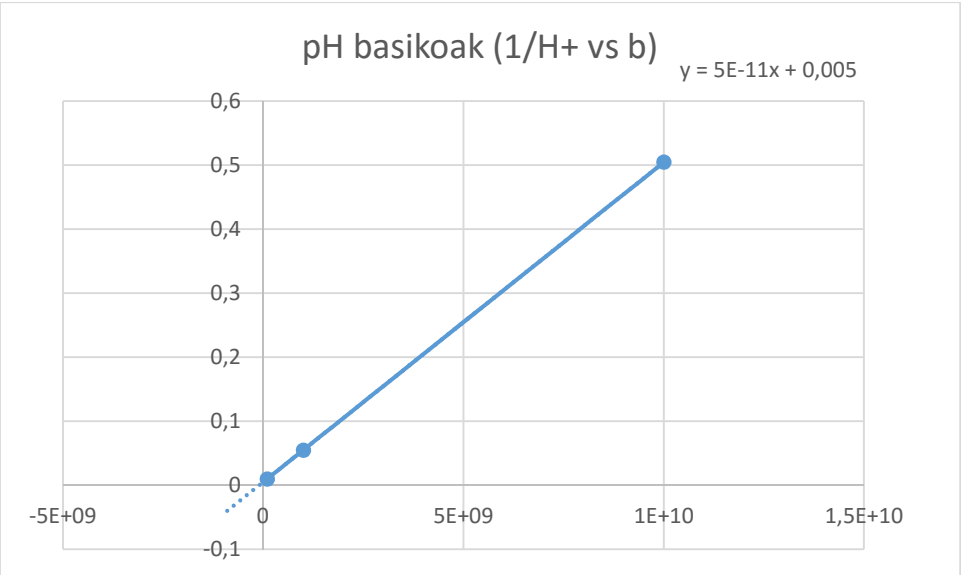
[H+]	b
0,00001	0,055
0,000001	0,0101
0,0000001	0,006



b= 1/Vmax= 0.0053 → Vmax=188.68 µmol prod./min·mg prot

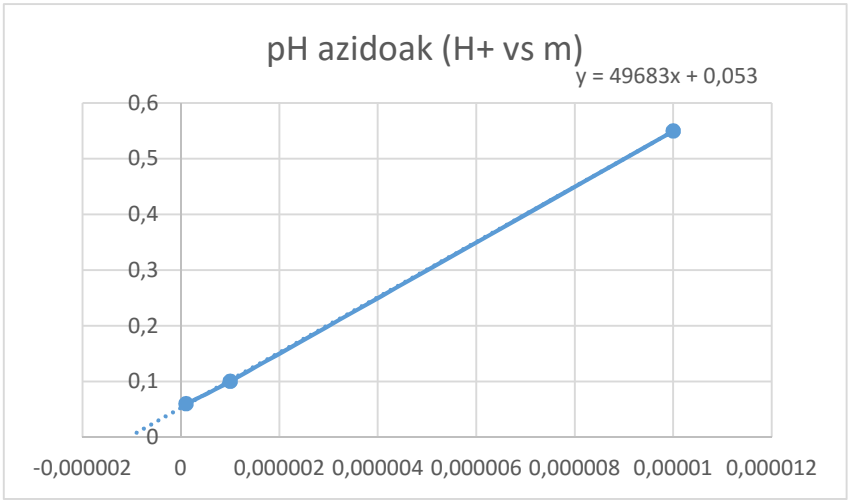
X ardatzaren ebaki puntua= -KES1= $-1{,}067 \cdot 10^{-6}$ → KES1= $1{,}067 \cdot 10^{-6}$M

1/[H+]	b
100000000	0,0101
1000000000	0,055
1E+10	0,5051



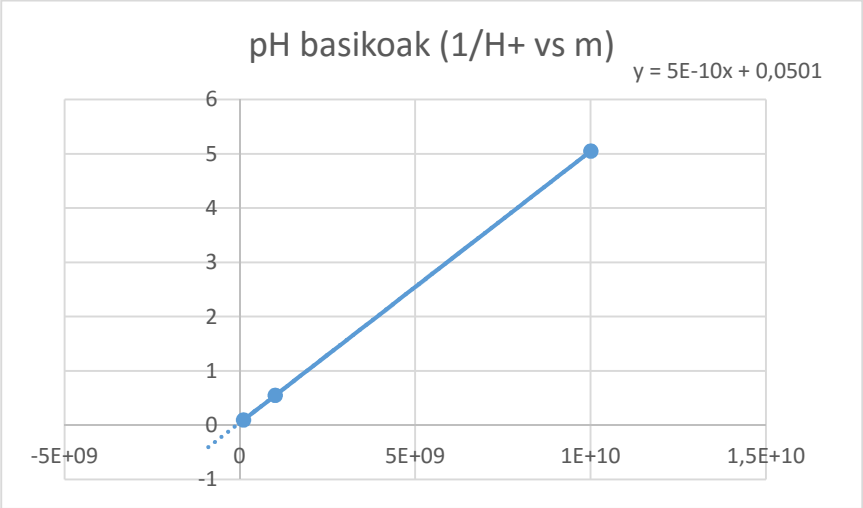
X ardatzaren ebaki puntua= -1/KES2= 10^{8} → KES2=10^{-8}M

[H+]	m
0,00001	0,55
0,000001	0,1005
0,0000001	0,0599



X ardatzaren ebaki puntua= -KE1= $1{,}067 \cdot 10^{-6}$ → KE1=$1{,}067 \cdot 10^{-6}$M

1/H+	m
100000000	0,1005
1000000000	0,5498
10000000000	5,051



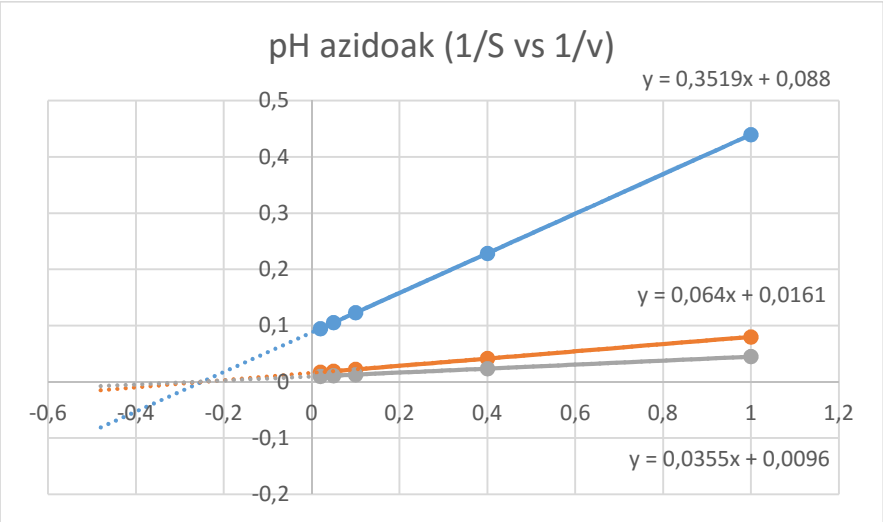
X ardatzaren ebaki puntua= -1/KE2= -100200000 → KE2= $9.98 \cdot 10^{-9}$M

α=KES1/KE1= $1{,}067 \cdot 10^{-6}/1{,}067 \cdot 10^{-6}$ → α=1

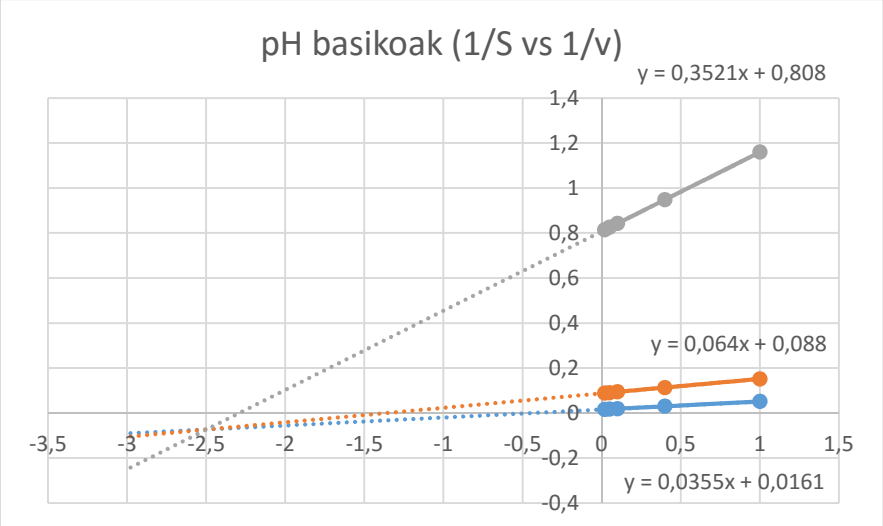
β=KE2/KES2= $9.98 \cdot 10^{-9}/\ 10^{-8}$ → β=0.998

9. ariketa

	1/v					
pH	1	0,4	0,1	0,05	0,02	1/S
5	0,43994721	0,22883295	0,12321341	0,10560777	0,095048	
6	0,08010895	0,04169272	0,02248303	0,01928157	0,01736051	
7	0,04512025	0,02380782	0,01315201	0,01137605	0,01031045	
8	0,05159959	0,03028835	0,01963209	0,01785587	0,01679036	
9	0,15204501	0,11362345	0,09441088	0,09120759	0,08928571	
10	1,16009281	0,9487666	0,84317032	0,82576383	0,81499593	

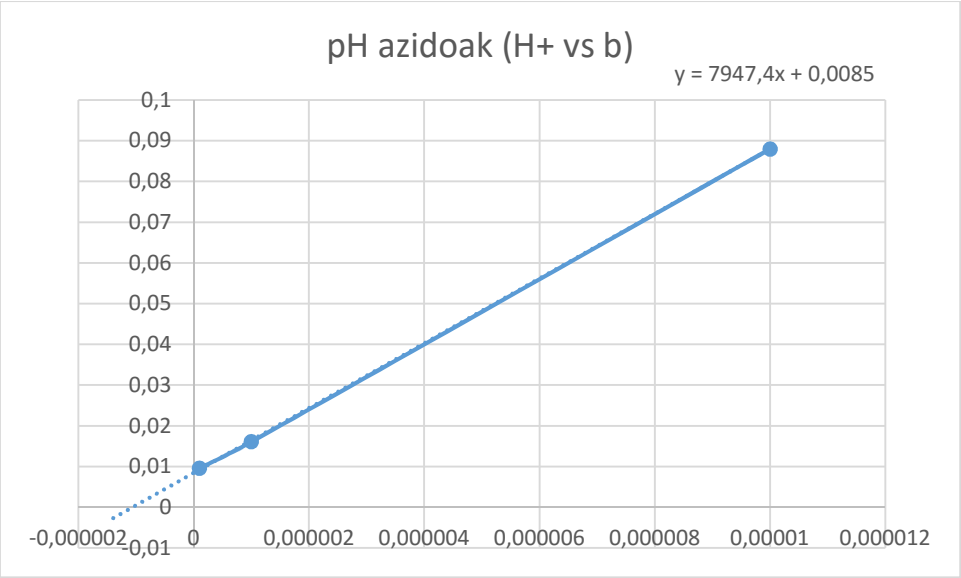


Zuzenek elkar ebakitzen duteneko x puntua= -1/αKs= -0.25 → αKs= 4M



Zuzenek elkar ebakitzen duteneko x puntua= -1/βKs=-2.5 → βKs=0.4M

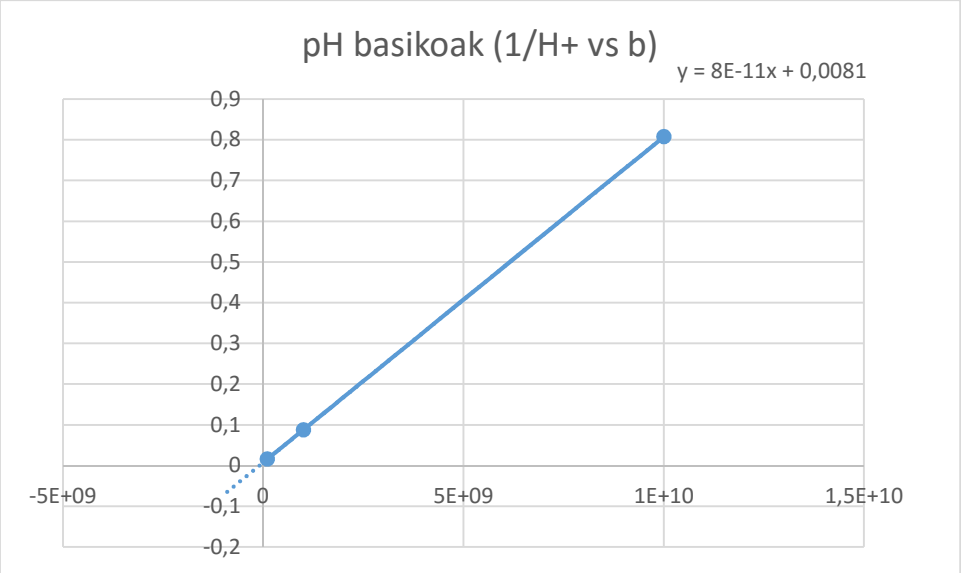
[H+]	b
0,00001	0,088
0,000001	0,0161
0,0000001	0,0096



b= 1/Vmax=0.0085 → Vmax= 117.65 µmol prod./min·mg prot.

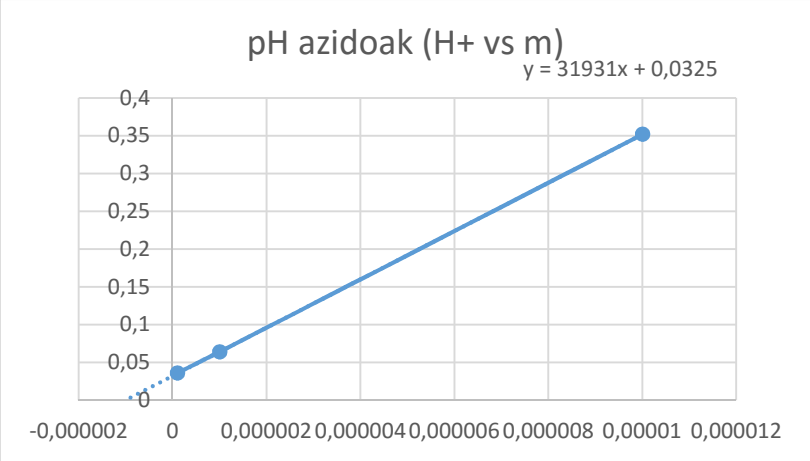
X ardatzaren ebaki puntua= -KES1= $-1{,}07 \cdot 10^{-6}$ → KES1=$1{,}07 \cdot 10^{-6}$M

1/[H+]	b
100000000	0,0161
1000000000	0,088
1E+10	0,808



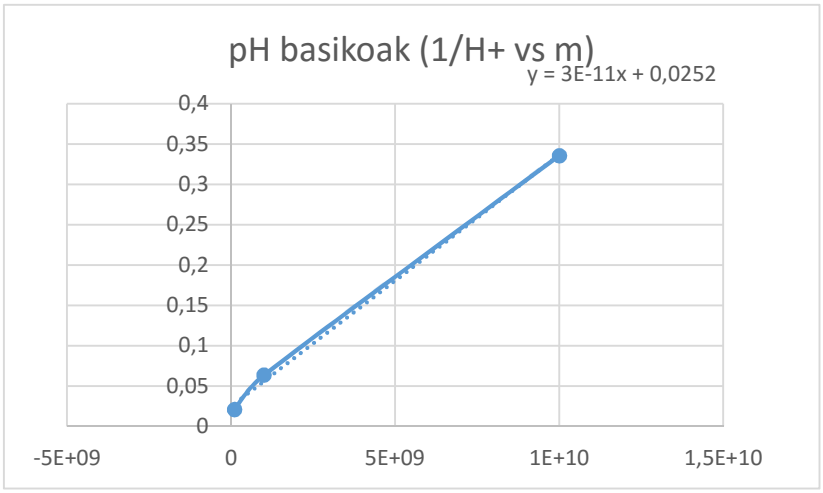
X ardatzaren ebaki puntua= -1/KES2= -101250000 → KES2=$9.88 \cdot 10^{-9}$M

[H+]	m
0,00001	0,3518
0,000001	0,064
0,0000001	0,036



X ardatzaren ebaki puntua= -KE1=- $1{,}02 \cdot 10^{-6}$ → KE1= $1{,}02 \cdot 10^{-6}$M

1/H+	m
100000000	0,0213
1000000000	0,064
10000000000	0,336



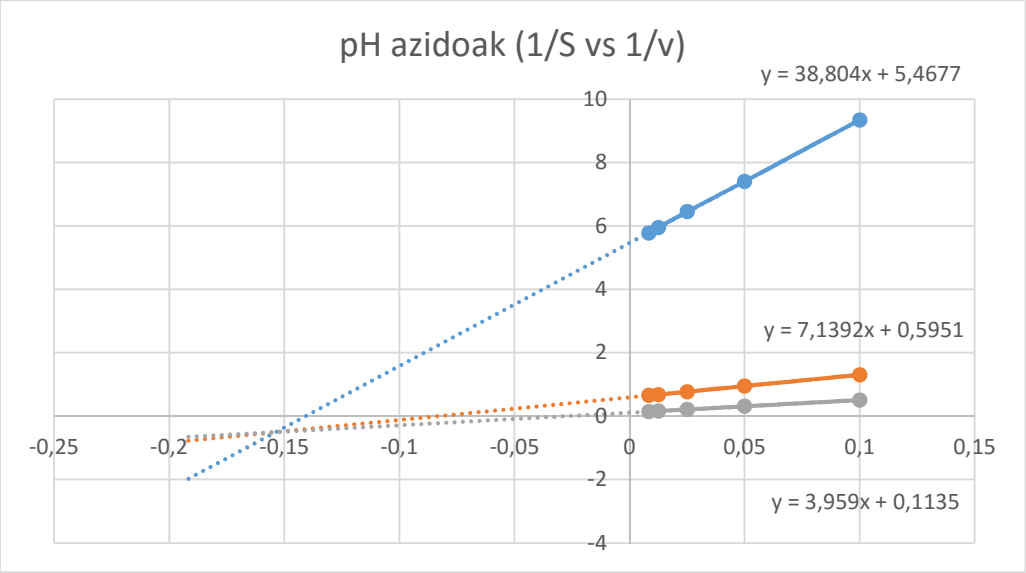
X ardatzaren ebaki puntua= -1/KE2=$8.4 \cdot 10^{-8}$ → KE2= $1{,}19 \cdot 10^{-9}$M

α=KES1/KE1= $1{,}07 \cdot 10^{-6}/1{,}02 \cdot 10^{-6}$= 1.04 → α= 1.04

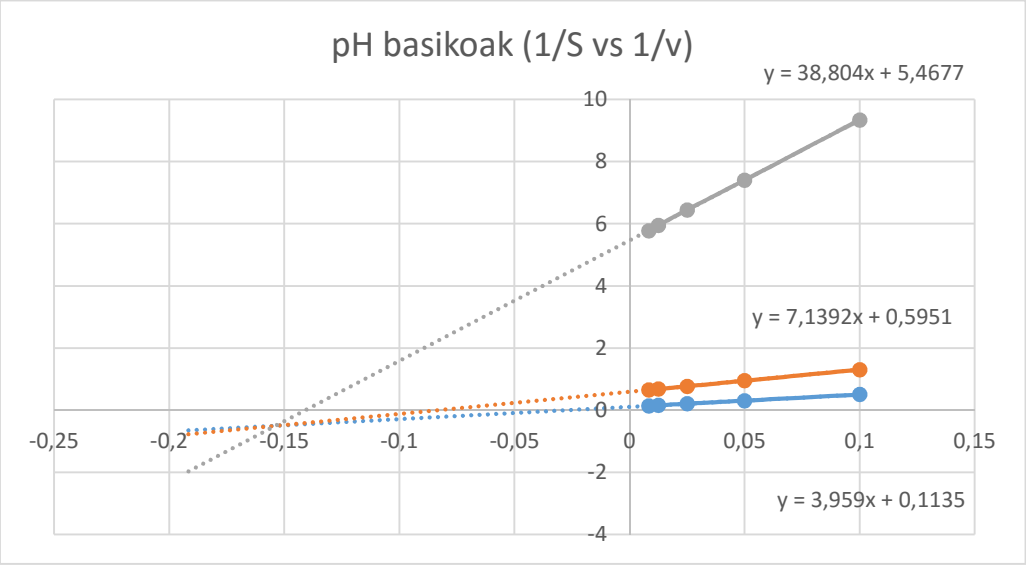
β=KE2/KES2= $1{,}19 \cdot 10^{-9}/9.88 \cdot 10^{-9}$=0.12 → β=0.12

10. ariketa

	1/v					
pH		0,1	0,05	0,025	0,0125	0,00833333	1/S
	5	9,345794393	7,40740741	6,4516129	5,95238095	5,78034682	
	6	1,308900524	0,95238095	0,7733952	0,6844627	0,65445026	
	7	0,50942435	0,31152648	0,21249469	0,16302576	0,14652015	
	8	0,50942435	0,31152648	0,21249469	0,16302576	0,14652015	
	9	1,308900524	0,95238095	0,7733952	0,6844627	0,65445026	
	10	9,345794393	7,40740741	6,4516129	5,95238095	5,78034682	

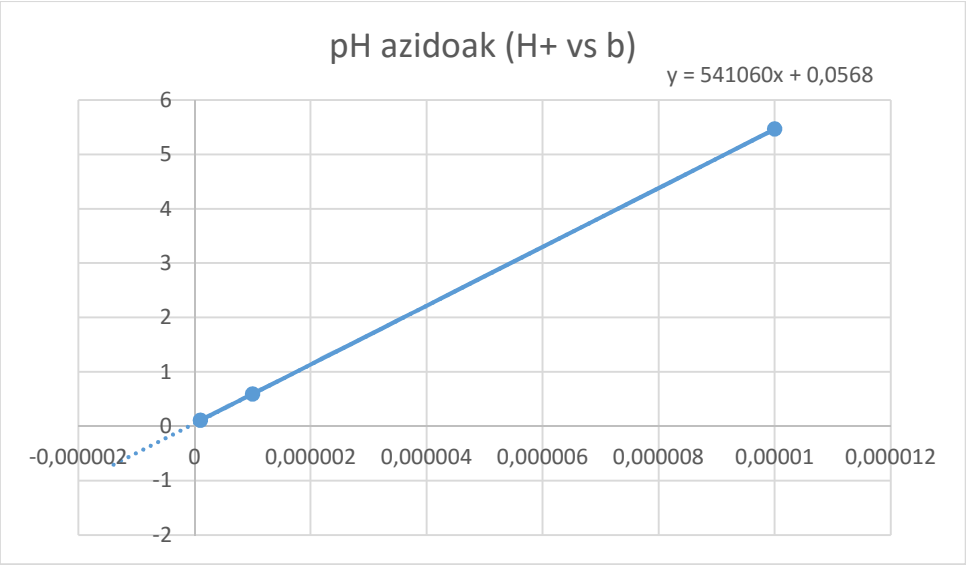


Zuzenek elkar ebakitzen duteneko x puntua= -1/αKs= -0.155 → αKs=6,45M



Zuzenek elkar ebakitzen duteneko x puntua= -1/βKs= -0.155 → βKs=6,45M

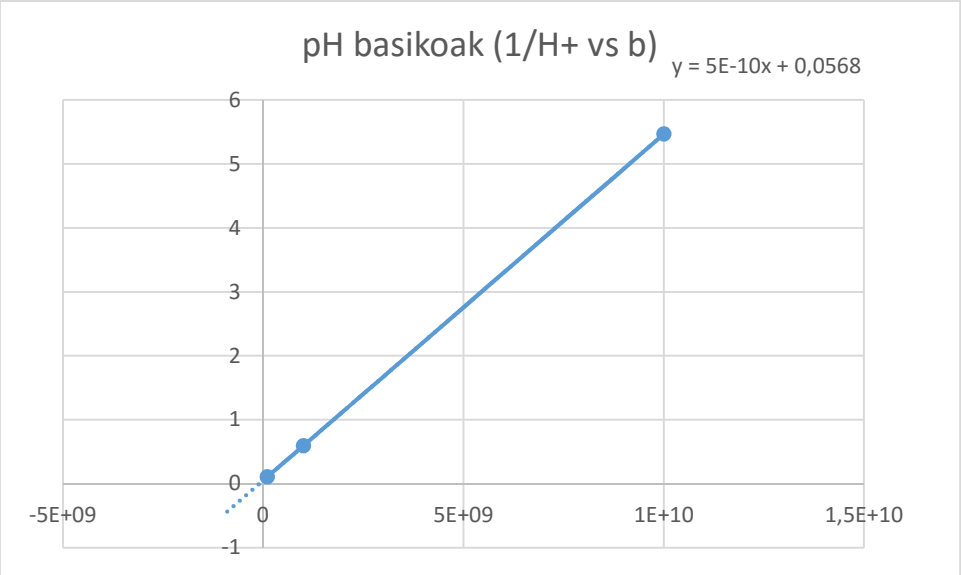
[H+]	b
0,00001	5,4677
0,000001	0,5951
0,0000001	0,1135



b= 1/Vmax= 0.0568 → Vmax= 17.6 µmol prod/min·mg prot

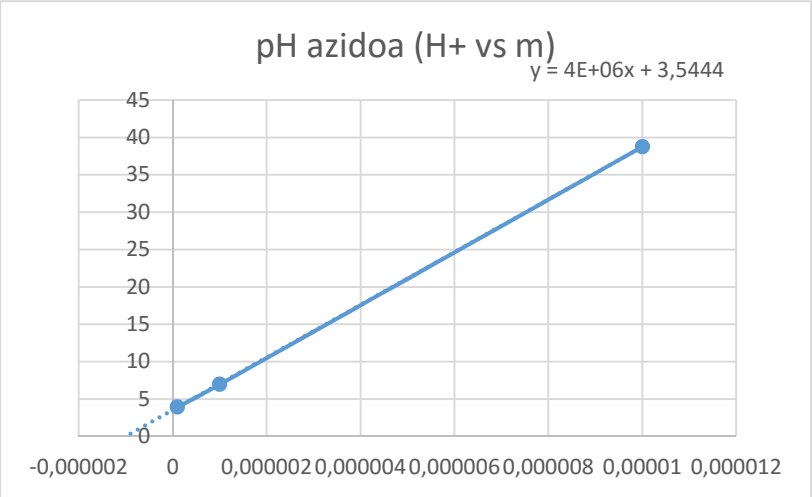
x ardatzaren ebaki puntua=-KES1=$-1{,}05 \cdot 10^{-7}$ → KES1=$1{,}05 \cdot 10^{-7}$M

1/[H+]	b
100000000	0,1135
1000000000	0,5951
10000000000	5,4677



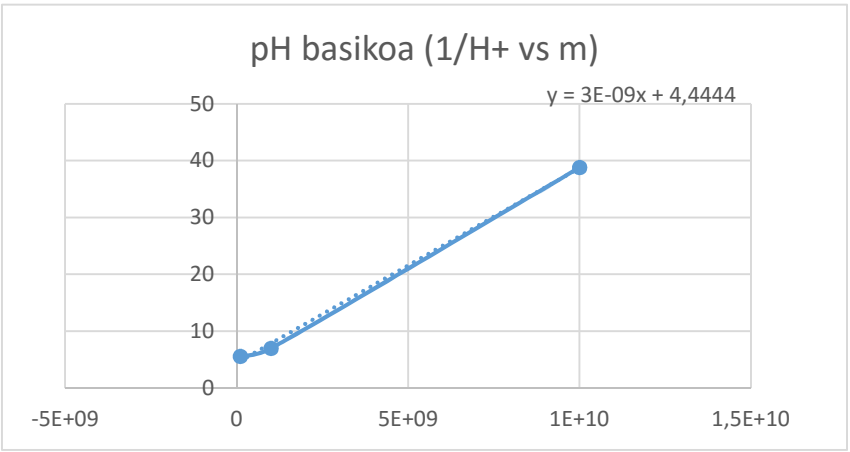
X ardatzaren ebaki puntua= -1/KES2= 113600000 → KES2= $8.8 \cdot 10^{-9}$M

[H+]	m
0,00001	38,78
0,000001	7
0,0000001	3,958



X ardatzaren ebaki puntua= -KE1= $-8.86 \cdot 10^{-7}$ → KE1= $8.86 \cdot 10^{-7} M$

1/[H+]	m
100000000	5,58
1000000000	7
10000000000	38,8



X ardatzaren ebaki puntua= -1/KE2= -1481333333 → KE2= $6.75 \cdot 10^{-10}$M

α=KES1/KE1= $1.05 \cdot 10^{-7}/8.86 \cdot 10^{-7}$= 0.1185 → α= 0.1185

β= KE2/KES2= $6.75 \cdot 10^{-10}/8.8 \cdot 10^{-9}$= 0.0767 → β=0.0767