

# LAO Kinetiken für SAM, SAH, Methionin

## 1.1 Reaction solutions

LAO-Reaction-Mix (prepare fresh)	Final Volume: 4500 µl
Add ...	Final concentration
233 µl - 193 U/mL HRP	10 U/mL HRP
90 µl - 5 mg/mL TMB-HCl	0.1 mg/mL TMB-HCl
0.852 mL - 1.32 mg/mL LAO	0.25 mg/mL LAO
3325 µl Buffer (0.1 M Tris-HCl pH 7.5)	

## 1.2 Substrate concentrations

	1	2	3	4	5	6
	SAH		SAM		L-Met	
A	0	0	0	0	0	0
B	5	5	5	5	5	5
C	25	25	25	25	25	25
D	75	75	75	75	75	75
E	250	250	250	250	250	250
F	500	500	500	500	500	500
G	1250	1250	1250	1250	1250	1250
H	2000	2000	2000	2000	2000	2000

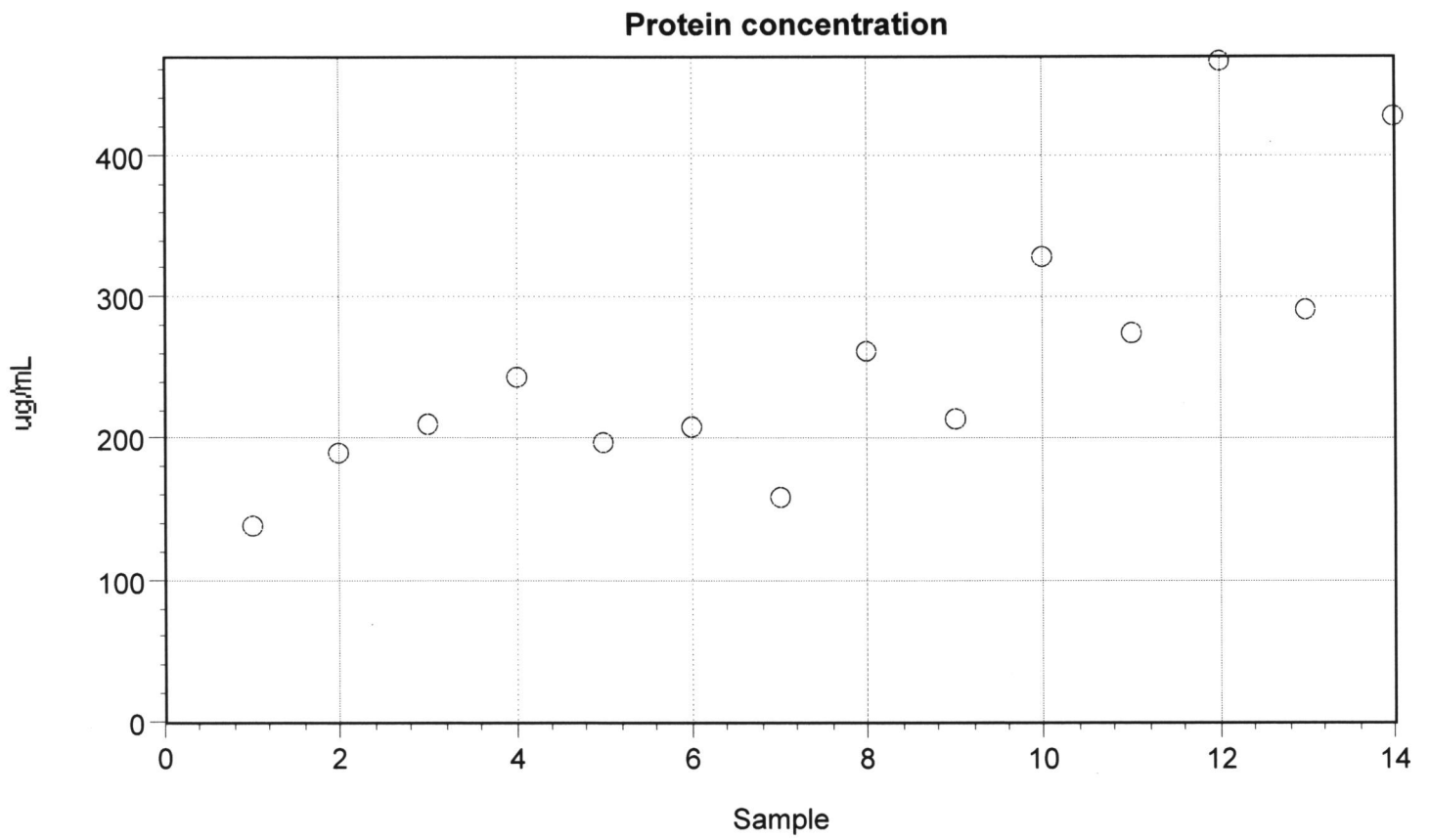
## 1.3 Pipetting

- Stock solution (SAM, SAH, L-Met) are 2 mM in ddH<sub>2</sub>O

Final concentration [µM]	Stock solution [µl]	ddH <sub>2</sub> O [µl]
0	-	100
5	1 (500 µM)	99
25	5 (500 µM)	95
75	15 (500 µM)	85
250	12.5	87.5
500	100	300
1250	62.5	37.5
2000	100	-

RHy  
 1:2.82  
 100µl Kon  
 182µl H<sub>2</sub>O  
3.24 mg

## Experiment#1



○ ÄKTA Fractions (Fractions: Sample# vs Concentration)

□ Samples (Group01: Sample# vs Concentration)

# Experiment#1

## Fractions (I)

Sample	Wells	Sample#	Values	MeanValue	sd	Concentration
Fr01	A3	1	0,826	0,819	0,007	138,822
	A4		0,813			
Fr02	B3	2	0,877	0,873	0,004	190,329
	B4		0,869			
Fr03	C3	3	0,897	0,893	0,005	209,374
	C4		0,888			
Fr04	D3	4	0,930	0,927	0,003	242,654
	D4		0,924			
Fr05	E3	5	0,879	0,880	0,001	197,255
	E4		0,881			
Fr06	F3	6	0,893	0,891	0,002	208,027
	F4		0,890			
Fr07	G3	7	0,845	0,840	0,004	159,069
	G4		0,836			
Fr08	H3	8	0,893	0,948	0,055	262,228
	H4		1,003			
Fr09	A5	9	0,892	0,898	0,006	214,520
	A6		0,904			
Fr10	B5	10	1,013	1,016	0,004	328,403
	B6		1,020			
Fr11	C5	11	0,967	0,960	0,007	274,203
	C6		0,953			
Fr12	D5	12	1,173	1,159	0,014	465,563
	D6		1,145			
Fr13	E5	13	0,988	0,979	0,010	292,093
	E6		0,969			
Fr14	F5	14	1,128	1,119	0,009	427,089
	F6		1,110			