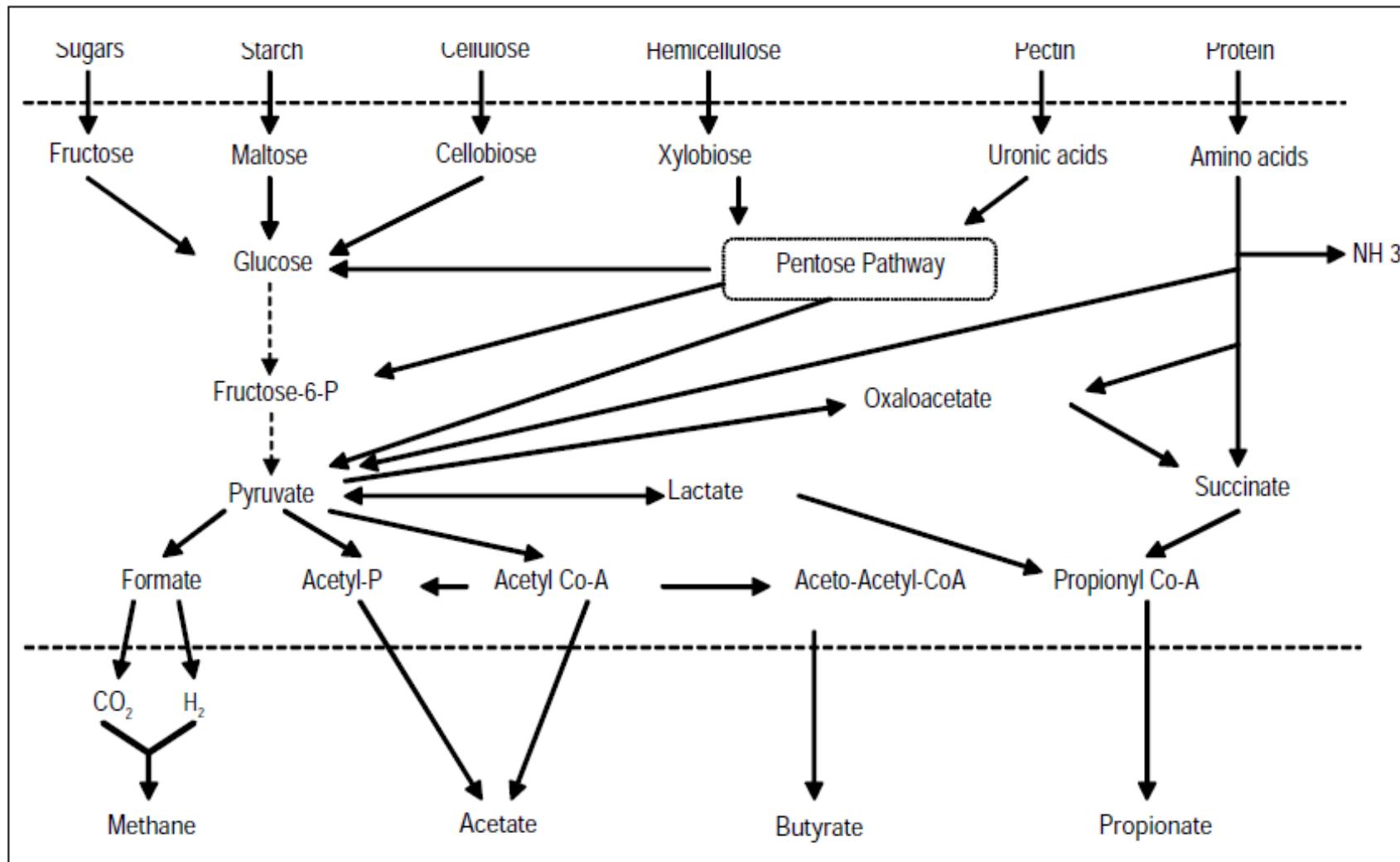
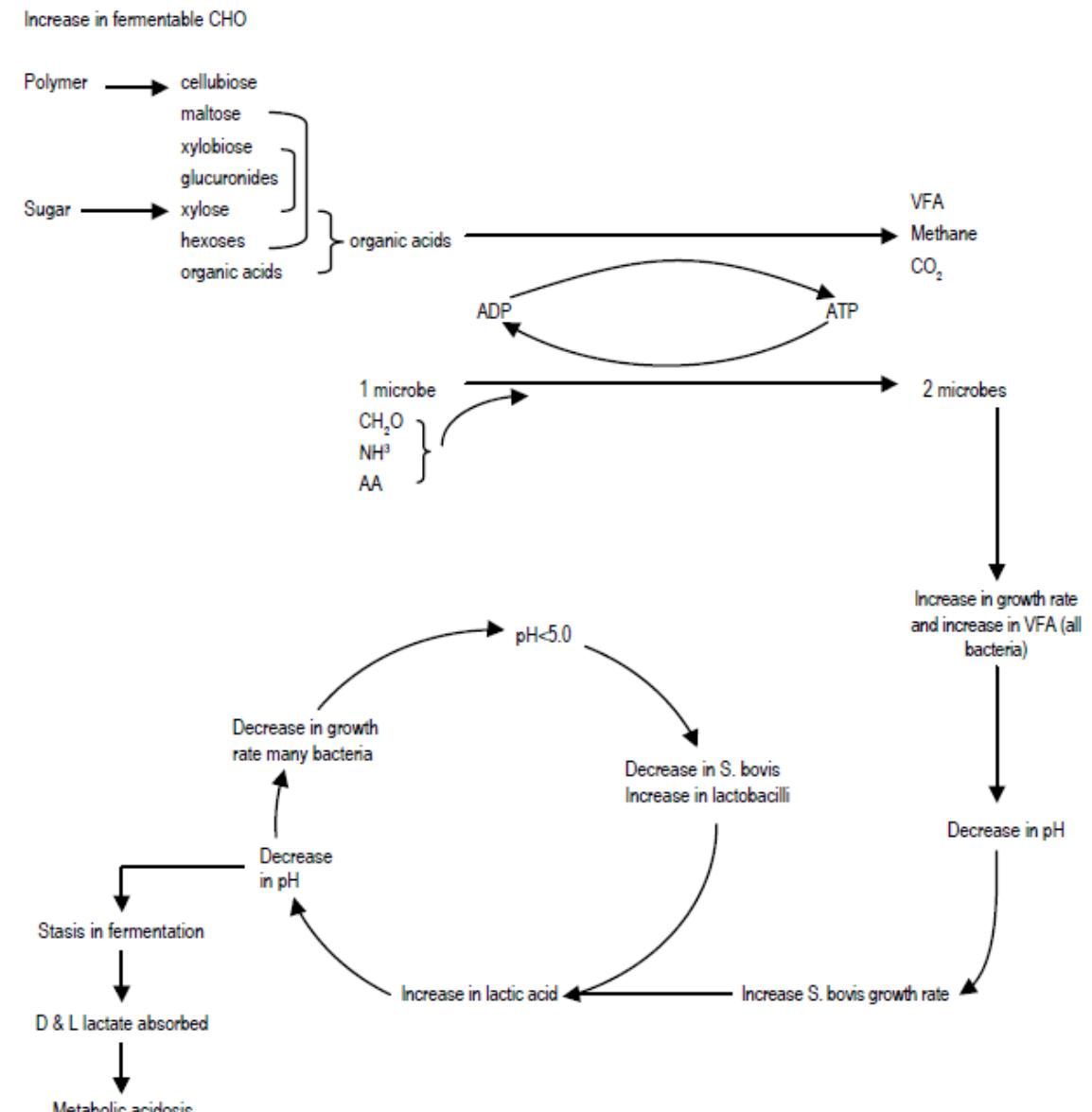


Omeostasi ruminale





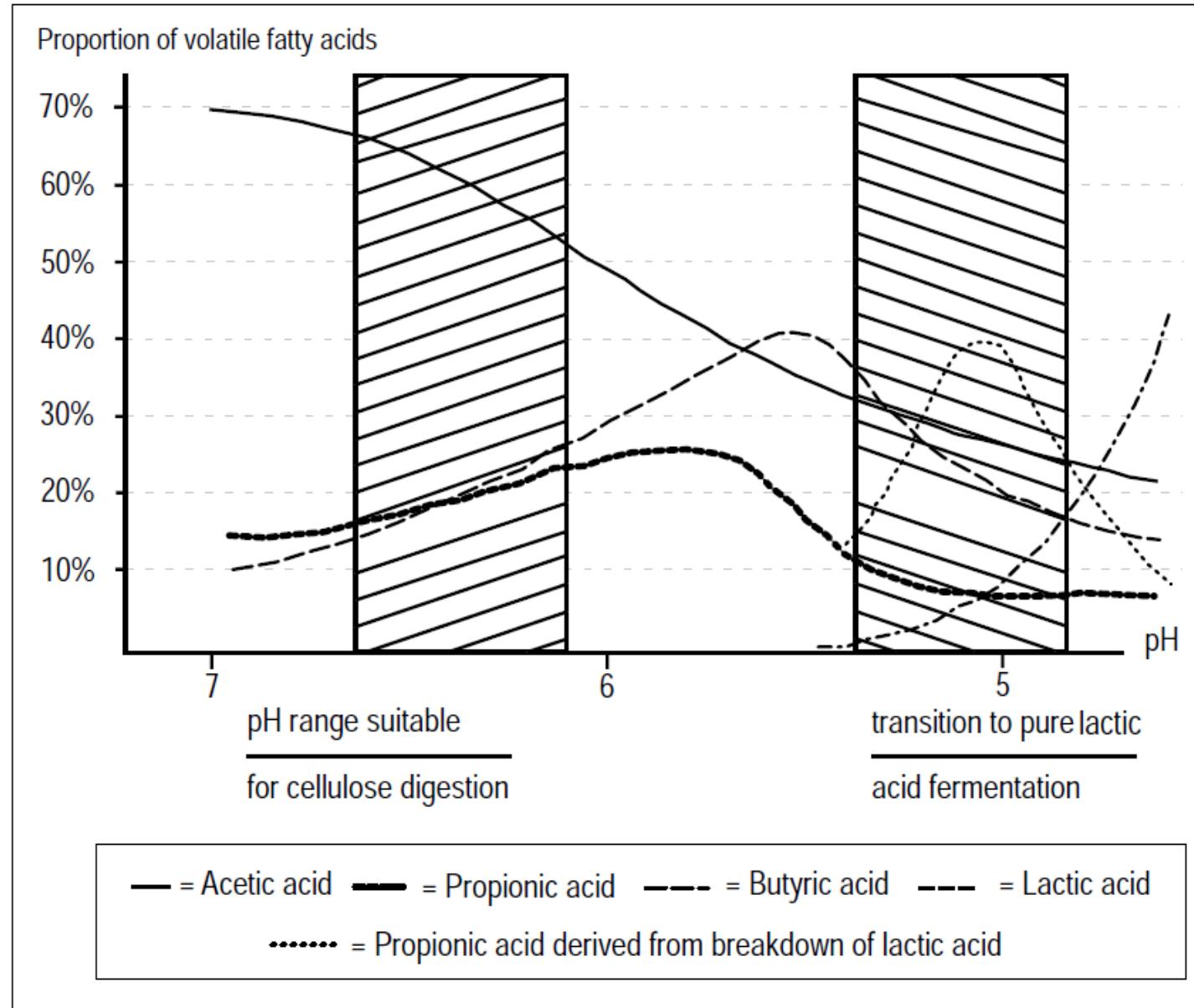
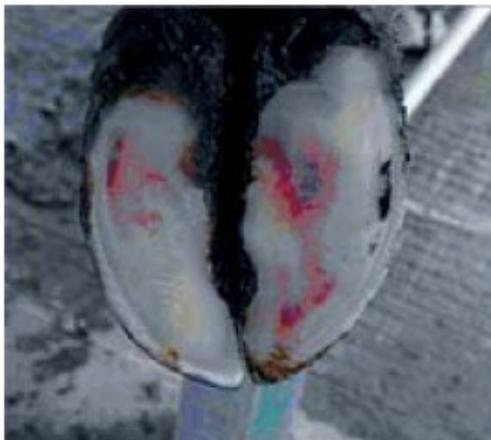


Figure 3: Proportions of acids produced in the rumen when pH falls from 7.0 (after Kaufmann and Ruhr 1967, reprinted from: Rosenberger, Clinical Examination of Cattle, 1979, Paul Parey Scientific Publishers, Berlin and Hamburg).



Cow scouring.



Paint brush sole haemorrhages and white line disease.



Laminitic rings – these are the result of an outbreak of acute laminitis approximately two months previously.



Abnormal horn formation due to production of inferior quality hoof horn.



Score 1: Faeces extremely liquid, bubbling and containing grain.



Score 2: Runny – stools do not form up – little evidence of fibre.



Score 3: Porridge-like consistency, forms 'chocolate cake' stools. Well-digested fibre is evident.



Score 4: Excessive fibre evident throughout stool, forms piles more than 50 mm high.

Rule of thumb

Score at least 25 fresh manure pats in the paddock using the 1-5 scoring system.

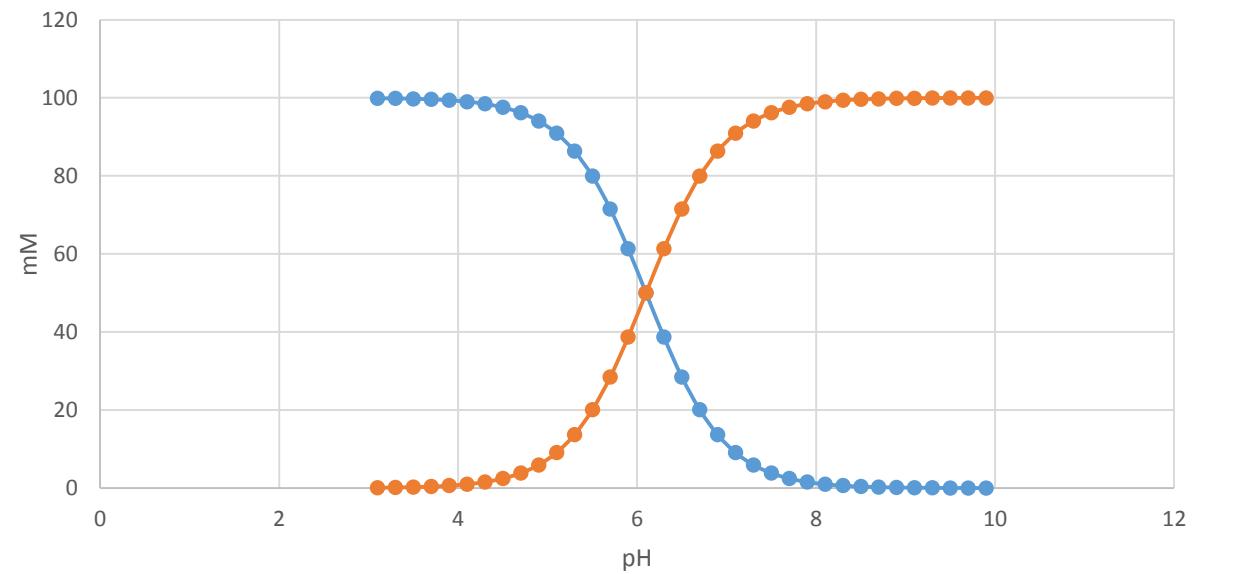
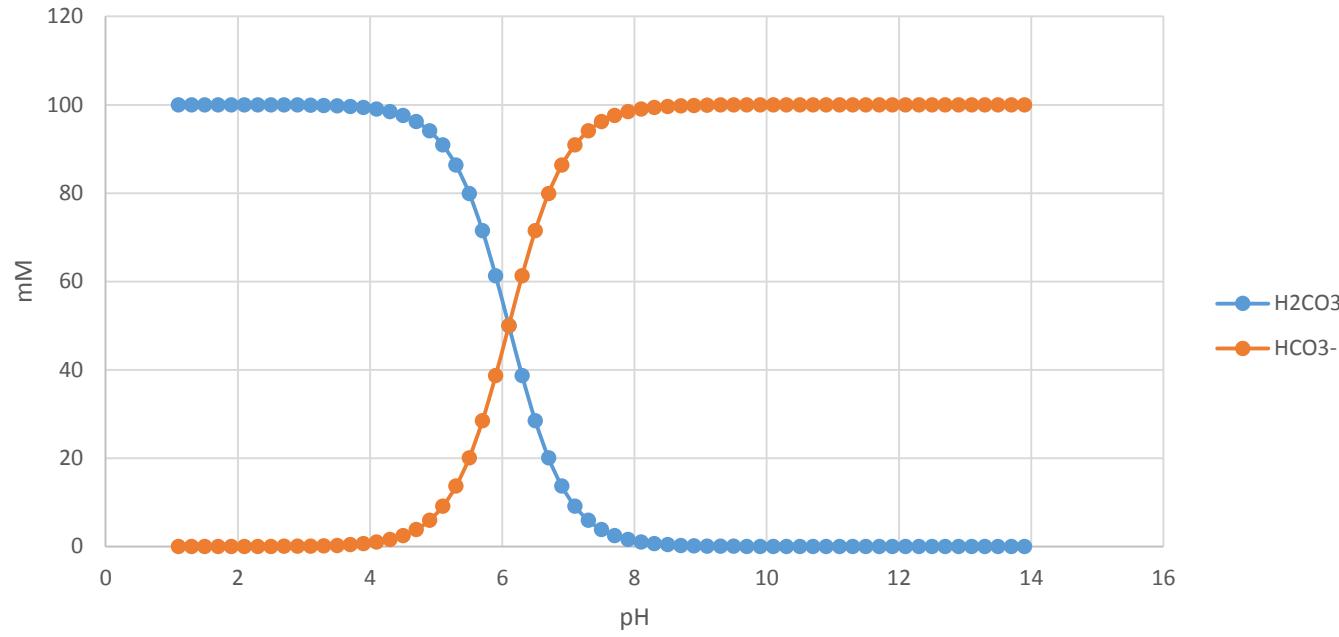
If more than 5 of the 25 pats are score 2 or less, take action.

Tampone bicarbonato



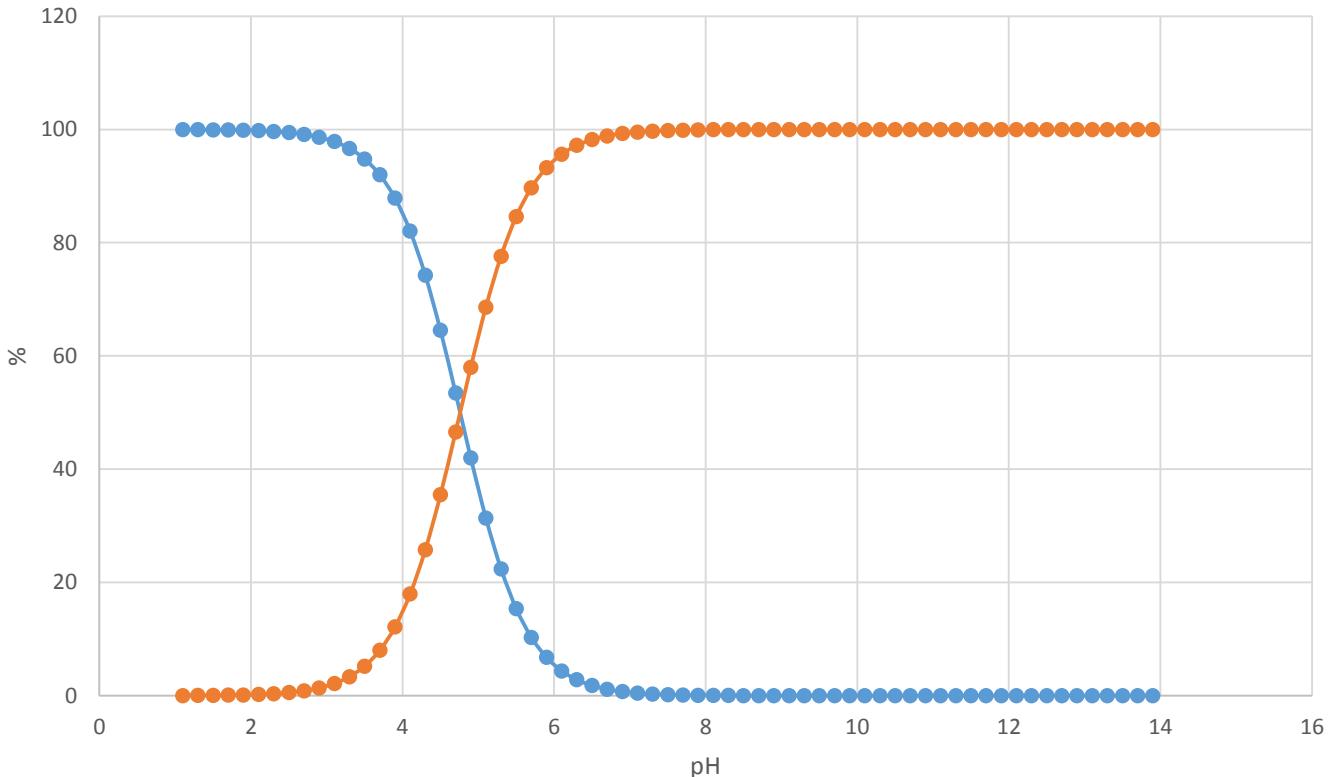
$$pK_a = 6,1$$

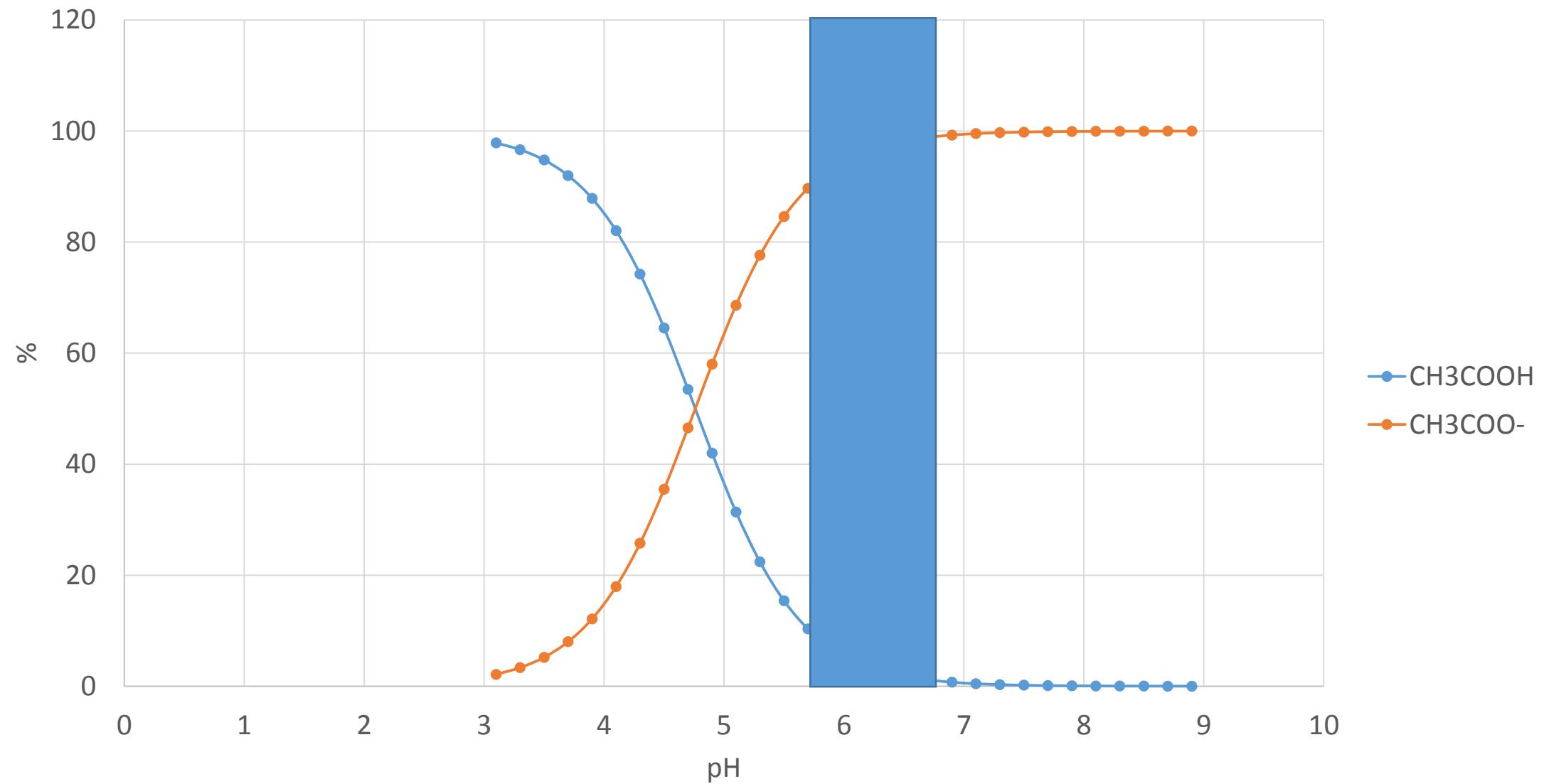
$$pH = pK_{a \ H_2CO_3} + \log \left(\frac{[\text{HCO}_3^-]}{[\text{H}_2\text{CO}_3]} \right)$$



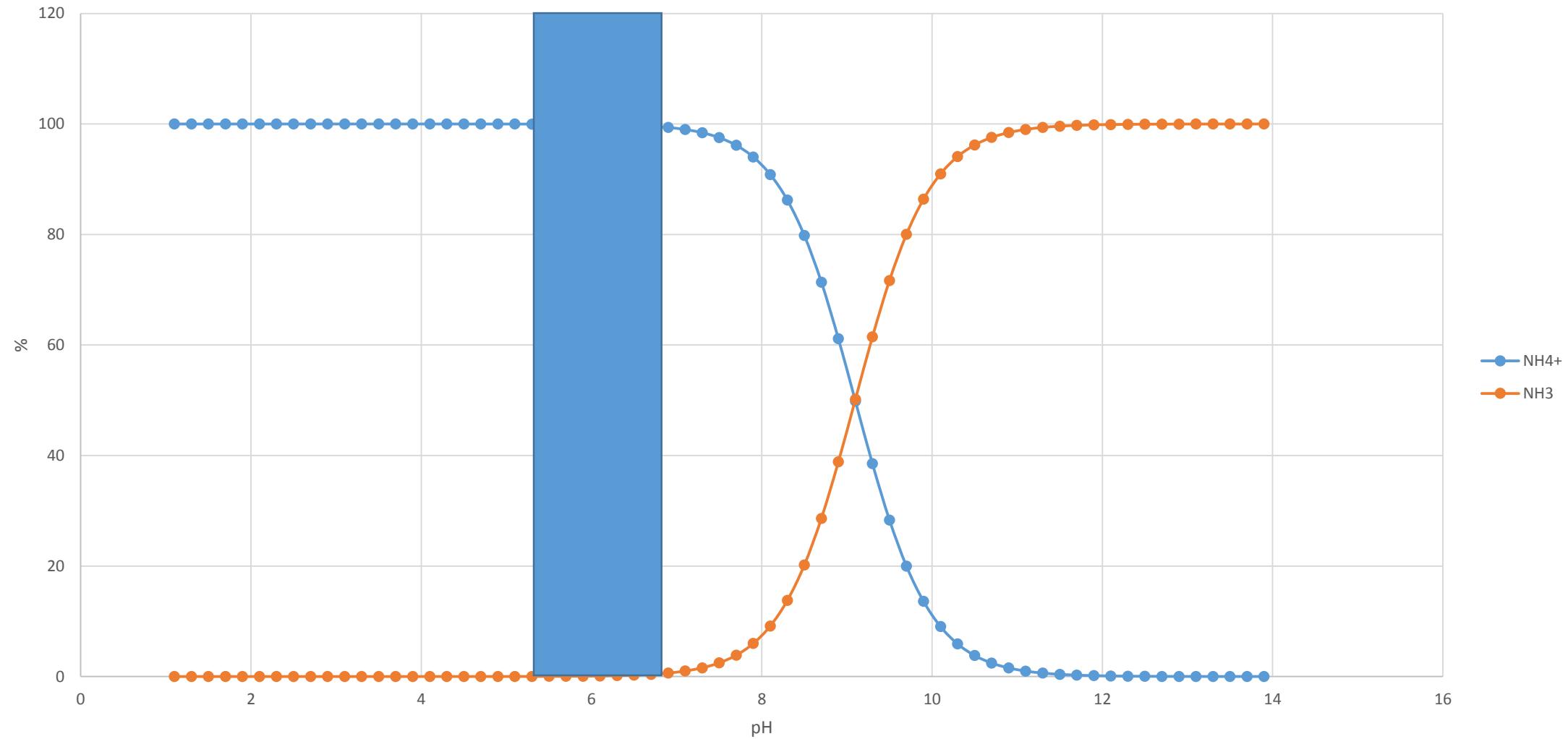
Acido acetico, pKa 4,76

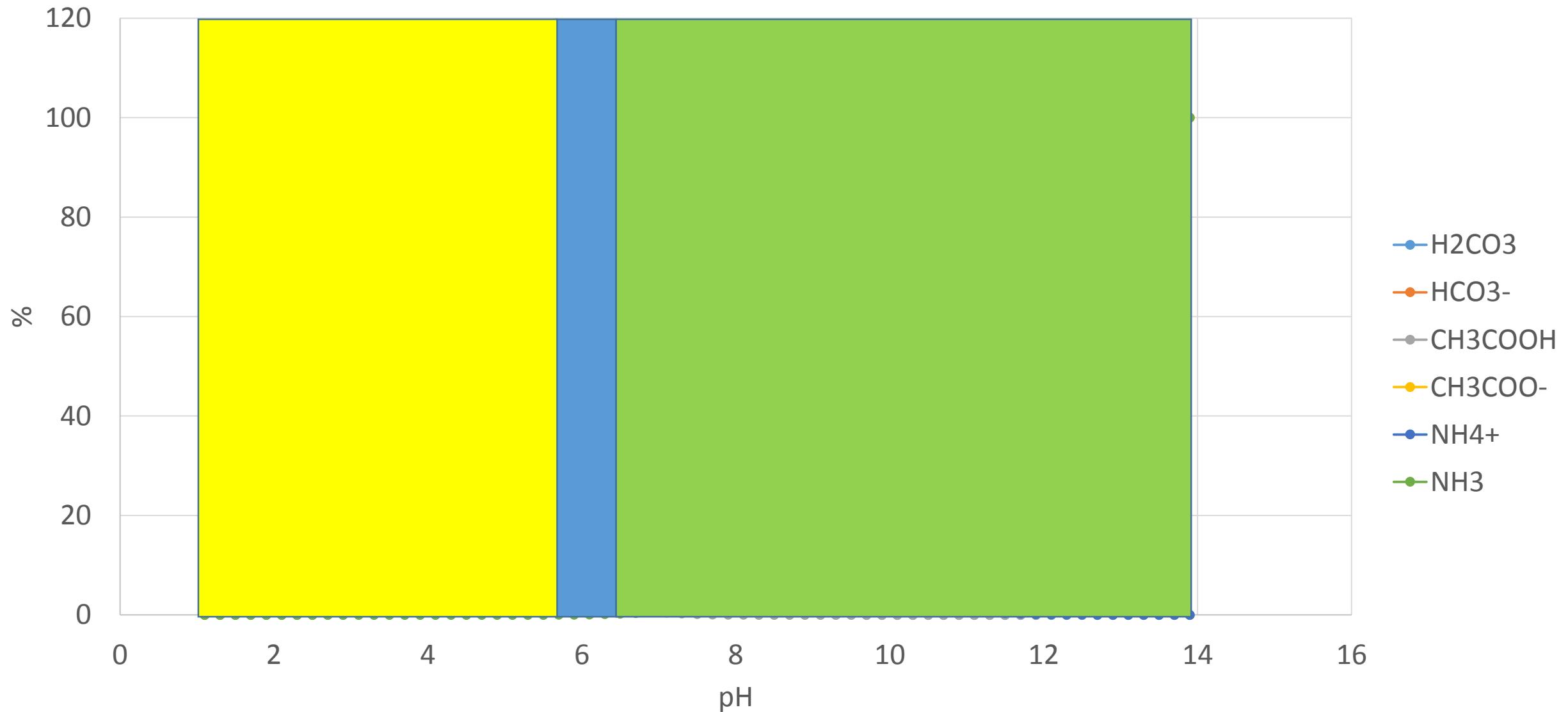
pH	CH ₃ COOH	CH ₃ COO ⁻
1,1	99,97813	0,021873
1,3	99,96534	0,034662
1,5	99,94508	0,054924
1,7	99,91298	0,087021
1,9	99,86215	0,137848
2,1	99,7817	0,218299
2,3	99,65446	0,345539
2,5	99,45346	0,546537
2,7	99,13656	0,863443
2,9	98,63841	1,361589
3,1	97,85908	2,140923
3,3	96,64883	3,351171
3,5	94,79086	5,209145
3,7	91,98817	8,011834
3,9	87,8705	12,1295
4,1	82,04952	17,95048
4,3	74,25556	25,74564
4,5	64,44925	35,547475
4,7	54,44925	45,55161
4,9	42,01002	57,98998
5,1	31,36997	68,63003
5,3	22,38454	77,61546
5,5	15,39549	84,60451
5,7	10,29905	89,70095
5,9	6,75503	93,245
6,1	4,371085	95,62892
6,3	2,802187	97,19681
6,5	1,78718	98,21282
6,7	1,135121	98,86488
6,9	0,79226	99,28077
7,1	0,455008	99,54499
7,3	0,287574	99,71243
7,5	0,18164	99,81836
7,7	0,114684	99,88532
7,9	0,072391	99,92761
8,1	0,045688	99,95431
8,3	0,028832	99,97117
8,5	0,018194	99,98181
8,7	0,01148	99,98852
8,9	0,007244	99,99276
9,1	0,004571	99,99543
9,3	0,002884	99,99712
9,5	0,00182	99,99818
9,7	0,001148	99,99885
9,9	0,000724	99,99928
10,1	0,000457	99,99954
10,3	0,000288	99,99971
10,5	0,000182	99,99982
10,7	0,000115	99,99989
10,9	7,24E-05	99,99993
11,1	4,57E-05	99,99995
11,3	2,88E-05	99,99997
11,5	1,82E-05	99,99998
11,7	1,15E-05	99,99999
11,9	7,24E-06	99,99999
12,1	4,57E-06	100
12,3	2,88E-06	100
12,5	1,82E-06	100
12,7	1,15E-06	100
12,9	7,24E-07	100
13,1	4,57E-07	100
13,3	2,88E-07	100
13,5	1,82E-07	100
13,7	1,15E-07	100
13,9	7,24E-08	100

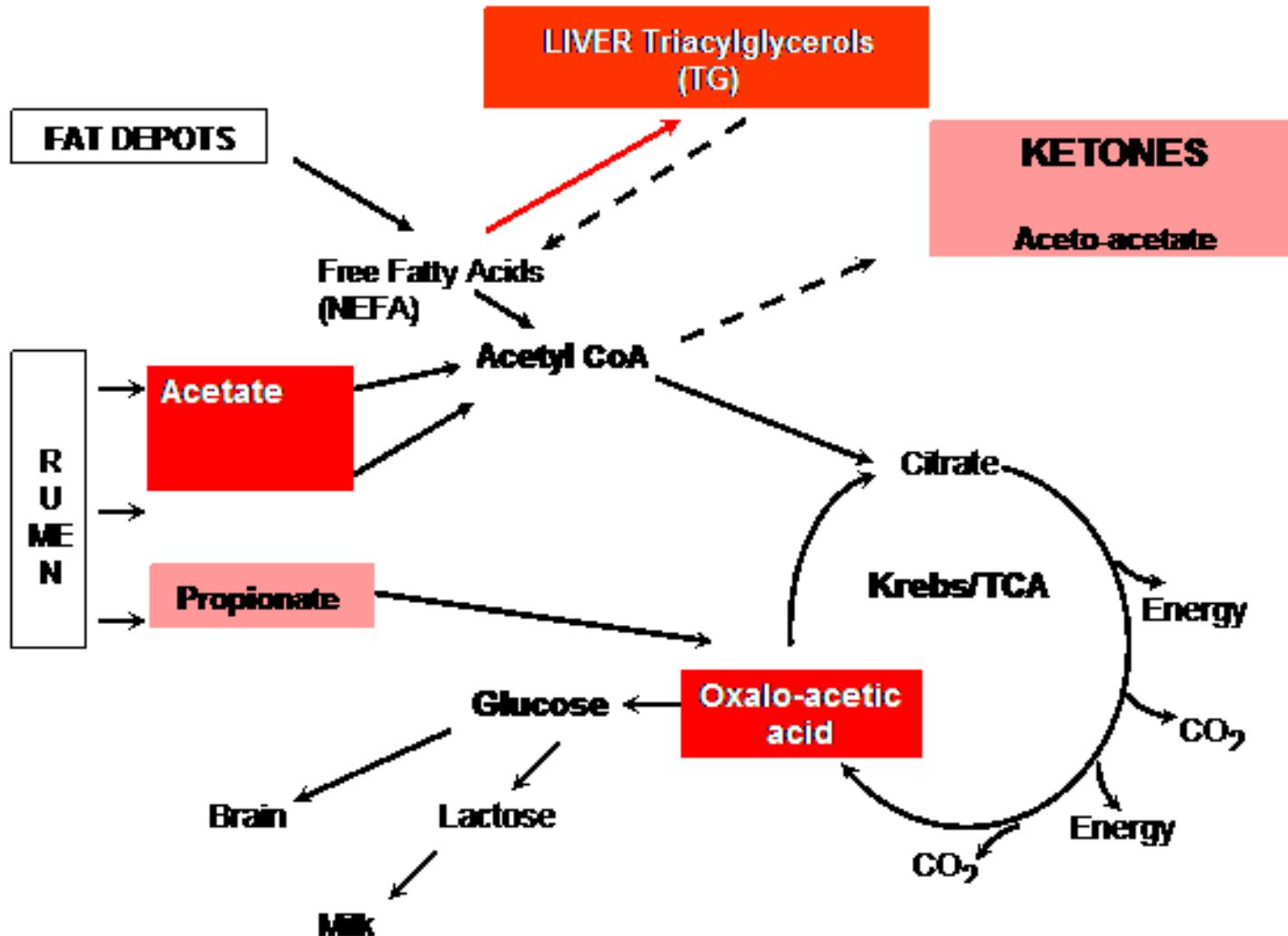


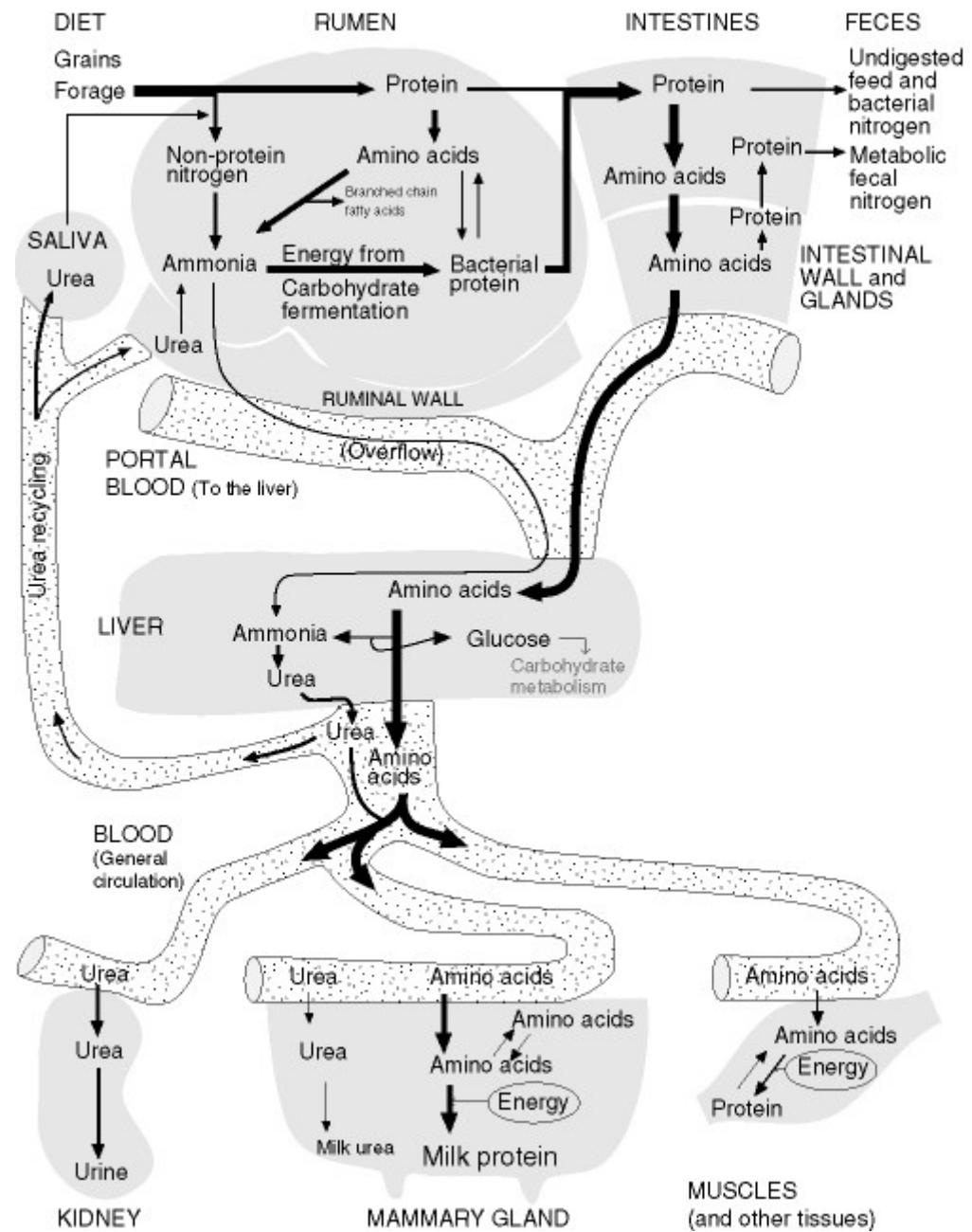


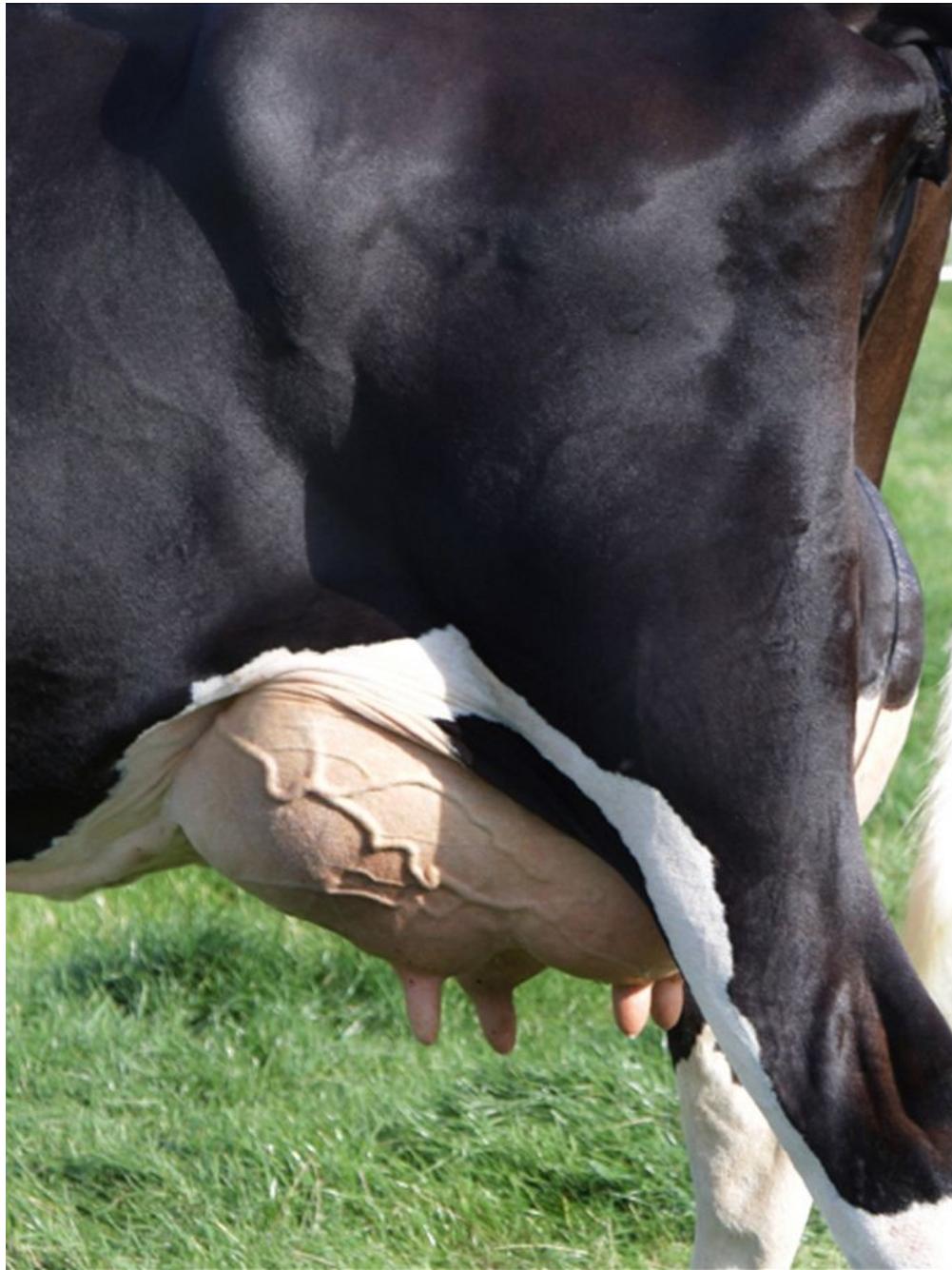
Ammoniaca pK_b 9,1











Structure of the mammary gland

