

Table S1. Comparison of known NH_4^+ concentrations ($[\text{NH}_4^+]_{\text{known}}$) and measured NH_4^+ concentrations after correction for interference by K^+ ($[\text{NH}_4^+]_{\text{corrected}}$) in solutions containing 25, 100, 120 and 140 $\text{mmol l}^{-1} \text{K}^+$. The sum of KCl , NH_4Cl and NaCl was 85 mmol l^{-1} for solutions containing 25 $\text{mmol l}^{-1} \text{K}^+$ and 170 mmol l^{-1} for solutions containing 100, 120 and 140 $\text{mmol l}^{-1} \text{K}^+$.

		$[\text{NH}_4^+]_{\text{known}} (\text{mmol l}^{-1})$									
25 $\text{mmol l}^{-1} \text{K}^+$		0	0.1	0.5	1	5	10	20			
$[\text{NH}_4^+]_{\text{corrected}}$	Mean	0.0	0.1	0.4	1.1	5.2	10.0	20.1			
	s.e.m.	0.1	0.1	0.1	0.1	0.1	0.3	0.3			
	<i>N</i>	6	6	6	6	6	6	6			
		$[\text{NH}_4^+]_{\text{known}} (\text{mmol l}^{-1})$									
100 $\text{mmol l}^{-1} \text{K}^+$		0	0.1	0.5	1	5					
$[\text{NH}_4^+]_{\text{corrected}}$	Mean	0.3	0.4	0.8	1.3	5.4					
	s.e.m.	0.1	0.1	0.1	0.1	0.1					
	<i>N</i>	7	7	7	7	7					
		$[\text{NH}_4^+]_{\text{known}} (\text{mmol l}^{-1})$									
120 $\text{mmol l}^{-1} \text{K}^+$		0	0.1	0.5	1	5	10	20	30	40	
$[\text{NH}_4^+]_{\text{corrected}}$	Mean	0.1	0.3	0.5	1.1	5.1	9.7	20.0	30.5	40.2	
	s.e.m.	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.6	1.0	
	<i>N</i>	12	12	12	12	12	5	5	5	5	
		$[\text{NH}_4^+]_{\text{known}} (\text{mmol l}^{-1})$									
140 $\text{mmol l}^{-1} \text{K}^+$		0	0.1	0.5	1	5					
$[\text{NH}_4^+]_{\text{corrected}}$	Mean	0.2	0.1	0.8	1.2	5.0					
	s.e.m.	0.1	0.2	0.2	0.1	0.1					
	<i>N</i>	7	7	7	7	7					