

Spike recovery of real oral fluid samples before and after standard additions.

Sample	L-Lactate contents			RSD (%) ^b	Recovery (%) ^c
	Before Spiking	Spiked	After Spiking ^a		
Sample 1	1.2 mmol L ⁻¹	1 mmol L ⁻¹	2,3 mmol L ⁻¹	1,2	110
Sample 2	2,5 mmol L ⁻¹	2 mmol L ⁻¹	4,2 mmol L ⁻¹	2,3	85
Sample 3	0,9 mmol L ⁻¹	1 mmol L ⁻¹	1,7 mmol L ⁻¹	1,1	80
Sample 4	2,8 mmol L ⁻¹	3 mmol L ⁻¹	5,5 mmol L ⁻¹	1,5	90
Sample 5	3,3 mmol L ⁻¹	3 mmol L ⁻¹	6,6 mmol L ⁻¹	1,5	110

^a Mean value of three individual measurements

^b RSD: relative standard deviation for three individual measurements

^c Recovery = (lactate after spiking – lactate before spiking)/(lactate spiked)×100

Table S1. Spike recovery of 5 real oral fluid samples before and after standard additions (range 0.6 - 10 mmol/L) using the smartphone-based lactate biosensor.