Time (Days)	FNT	TV	
1	- 0.06 (± 0.01)	-0.04 (+/- 0.00)	
2	- 0.06 (± 0.01)	- 0.06 (±0.00)	
3	- 0.05 (± 0.01)	- 0.07 (± 0.00)	
4	- 0.06 (±0.01)	- 0.07 (± 0.00)	
5	- 0.05 (±0.01)	- 0.07 (± 0.01)	
6	- 0.06 (±0.01)	- 0.08 (± 0.00)	
8	- 0.06 (±0.02)	- 0.09 (± 0.00)	
10	-0.06 (±0.02)	- 0.10 (± 0.01)	
12	- 0.07 (±0.02)	- 0.11 (±0.01)	
14	- 0.06 (±0.02)	- 0.10 (± 0.01)	
16	- 0.07 (±0.02)	- 0.10 (±0.01)	
Table S1 – Absolute Tafel Slope values measured for each day of the			

stability testing of the constructed electrodes.

Time (Days)	FNT	TV	
1	49406 (± 7968)	156536 (± 16858)	
2	47708 (± 4293)	80468 (± 253)	
3	43968 (± 1968)	80814 (± 6317)	
4	42375 (± 3937)	74292 (± 5346)	
5	48616 (± 1258)	66658 (± 6600)	
6	46339 (± 589)	35078 (± 4717)	
8	33281 (± 4406)	22585 (± 3580)	
10	30375 (± 562)	34331 (± 1268)	
12	26678 (± 2678)	17375 (± 0)	
14	33468 (± 281)	7400 (± 2240)	
Table S2 – Absolute activity data of the enzymes in solution. Activity was measured using syringaldazine as a substrate.			



Figure S1. Cyclic voltammetry of the FNTL-modified electrode, measured at four different pH in nitrogen and oxygen saturated electrolyte. Onset potential decreases with increasing pH, but pH 7 was chosen as the optimal pH because the steepness of catalytic region was the highest.



Figure S2 – Activity measured on different pH using the FNT laccase solution used for the construction of the electrodes. Syringaldazine was used as the substrate. The reaction was carried at room temperature $(20^{\circ}C)$. Maximum activity was detected around pH 6 and 7.



Figure S3 – Temperature dependence of FNTL (Dotted line) and TVL (Straight line). Enzymatic assays where done at the corresponding pH optima and at 25, 35 and 45 $^{\circ}$ C. Syringaldazine was used as the substrate.