

Additional file 5 Summary of the shares from regio- and stereoisomers, after oxidation by LiLOX and LiLOX mutants with PUFA 20:4(n-6). All regioisomers from 20:4(n-6) were separated by SP-HPLC and integrated. Data represent the average of the percentage of each regioisomers, from three independent experiments, performed with different enzyme preparations. The regioisomers present in sufficient amount were collected and analysed by CP-HPLC to separate both stereoisomers. The share of *S* isomers are presented in percentage. Rac : racemic.

		12-HETE	<i>S</i>	15-HETE	<i>S</i>	11-HETE	<i>S</i>	8-HETE	<i>S</i>	5-HETE	<i>S</i>
N702T/F703V	pH 6.5	8.9		23.9	96.6	61.7	92.0	1.8		3.7	
	pH 7.0	12.8		36.6		43.7		3.7		3.3	
	pH 7.5	14.1	95.9	49.9	95.7	28.0	92.9	5.1	90.9	2.9	rac
	pH 8.0	18.2	93.0	58.3	89.5	15.7	80.0	5.5		2.3	
N702T/F703V/ R853L	pH 6.5	14.1		50.0	92.48	27.0	86.6	6.4		2.5	
	pH 7.0	15.4		62.5		15.2		5.2		1.7	
	pH 7.5	15.8	98.1	69.0	97.4	9.7	87.7	4.4	87.0	1.1	
	pH 8.0	15.8		73.3		6.4		3.3		1.2	
N702T/F703V/ R853M	pH 6.5	12.0		36.8	98.1	39.8	86.72	10.3		1.1	
	pH 7.0	15.3		48.1		27.9		8.2		0.4	
	pH 7.5	16.0	98.8	60.5	95.1	15.4	91.5	7.2	76.0	0.9	
	pH 8.0	18.4		67.3		9.6		4.4		0.3	