## Supplementary table 1 Maximum activities of 2,5-DKG reductase measured in cell free extracts of induced and noninduced *L. lactis* and *Lb.*plantarum TLG02 after expression of the complete dkr ORF

not pH regulated cultivations of <i>L. la</i> strain /plasmid	volumetric activity (U L <sup>-1</sup> fermentation broth)		specific activity (U mg <sup>-1</sup> protein)		Induction factor b
	induced	noninduced	induced	noninduced	-
L. lactis NZ3900/pVK51ORFdkr	$44.8 \pm 0.58$	14.1 ± 1.5	$0.111 \pm 0.009$	$0.032 \pm 0.002$	3.7
Lb. plantarum/pSIP603ORFdkr	$43.2 \pm 1.8$	$13.1 \pm 0.17$	$0.114 \pm 0.001$	$0.046 \pm 0.003$	2.5
Lb. plantarum/pSIP609ORFdkr	$47.1 \pm 1.6$	$15.7 \pm 0.37$	$0.152 \pm 0.004$	$0.049 \pm 0.001$	3.1

pH regulated cultivations (pH 6.5) of L. lactis and Lb. plantarum <sup>a</sup>									
strain /plasmid	volumetric activity (U L <sup>-1</sup> fermentation broth)		specific activity (U mg <sup>-1</sup> protein)		Induction factor b				
	induced	noninduced	induced	noninduced	<del>_</del>				
L. lactis NZ3900/pVK51ORFdkr	$70.4 \pm 7.9$	$13.8 \pm 1.3$	$0.144 \pm 0.009$	$0.026 \pm 0.002$	5.5				
Lb. plantarum/pSIP603ORFdkr	$63.4 \pm 0.87$	$14.4 \pm 1.7$	$0.095 \pm 0.002$	$0.020 \pm 0.004$	4.8				
Lb. plantarum/pSIP609ORFdkr	$107 \pm 9.3$	$20.0 \pm 0.19$	$0.168 \pm 0.017$	$0.032 \pm 0.002$	5.3				

<sup>&</sup>lt;sup>a</sup> All data are mean values of three independent experiments. The maximum volumetric and specific activities measured in the culture are presented.

<sup>&</sup>lt;sup>b</sup> The induction factor was defined as the ratio between the specific activity obtained under induced conditions and the activity obtained under noninduced conditions