

**Supplementary Table 3** The parameters used to calculate the  $D_{ep}$  value

Parameter	Adsorption by <i>L. plantarum</i> Y2	Adsorption by macroporous resin D101	Adsorption by the mixture of <i>L. plantarum</i> and resin
$\tau$	0	1.61	1.29
$\varphi$	2.6	2.6	2.6
$T$ (K)	303.15	303.15	303.15
$M_B$ (mol/g)	18.02	18.02	18.02
$\eta_B$ (cP)	0.8004	0.8004	0.8004
$V_A$ (cm <sup>3</sup> /mol)	364.5	364.5	364.5