

Additional File 1. Strains used in this work.

Strains are listed alphabetically, indicating their full commercial name in the case of industrial strains, or genotype in the case of laboratory strains. The nitrogen needs are indicated according to the technical datasheets provided by the manufacturer in their web site (lallemandwine.com and fermentins.com). The precedence or producer of each strain is indicated.

Strain	Genotype/commercial name	Relative nitrogen needs	Origin
71B	Lalvin 71B	Low	Lallemand
<i>BC S103</i>	<i>SafCEno™ BC S103</i>	Low	Fermentis
BM45	Lalvin BM45	Medium-High	Lallemand
BQS252	MAT a <i>ura3-52</i> .	N.D.	J. Enrique Pérez-Ortín
BQS252 <i>PAR32::Myc</i>	BQS252 <i>PAR32::13Myc-KanMX6</i>	N.D.	This work
BQS252 <i>GLN3::Myc</i>	BQS252 <i>GLN3::13Myc-KanMX6</i>	N.D.	This work
BY4743	<i>MATa/α his3Δ1/his3Δ1 leu2Δ0/leu2Δ0 LYS2/lys2Δ0 met15Δ0/MET15 ura3Δ0/ura3Δ0</i>	N.D.	Brachmann et al., 1998
C9	<i>Mata ho::loxP</i>	N.D.	Walker et al., 2003
<i>CK S102</i>	<i>SafCEno™ CK S102</i>	High	Fermentis
CSM	Enoferm CSM	Medium	Lallemand
CY3079	Lalvin CY3079	Medium-High	Lallemand
DV10	Lalvin DV10	Low	Lallemand
EC1118	Lalvin EC1118	Low	Lallemand
EC1118 <i>PAR32::Myc</i>	EC1118 <i>PAR32::13Myc-KanMX6</i>	N.D.	This work
EC1118 <i>GLN3::Myc</i>	EC1118 <i>GLN3::13Myc-KanMX6</i>	N.D.	This work
L2056	Lalvin Rhône 2056	Medium	Lallemand
M2	<i>Enoferm M2</i>	Medium-High	Lallemand
RC212	Lalvin RC212	Medium	Lallemand
T73	Lalvin T73	Low	Lallemand
<i>UCLM S377</i>	<i>SafCEno™ UCLM S377</i>	High	Fermentis
UCLM S325	<i>SafCEno™ UCLM S325</i>	High	Fermentis