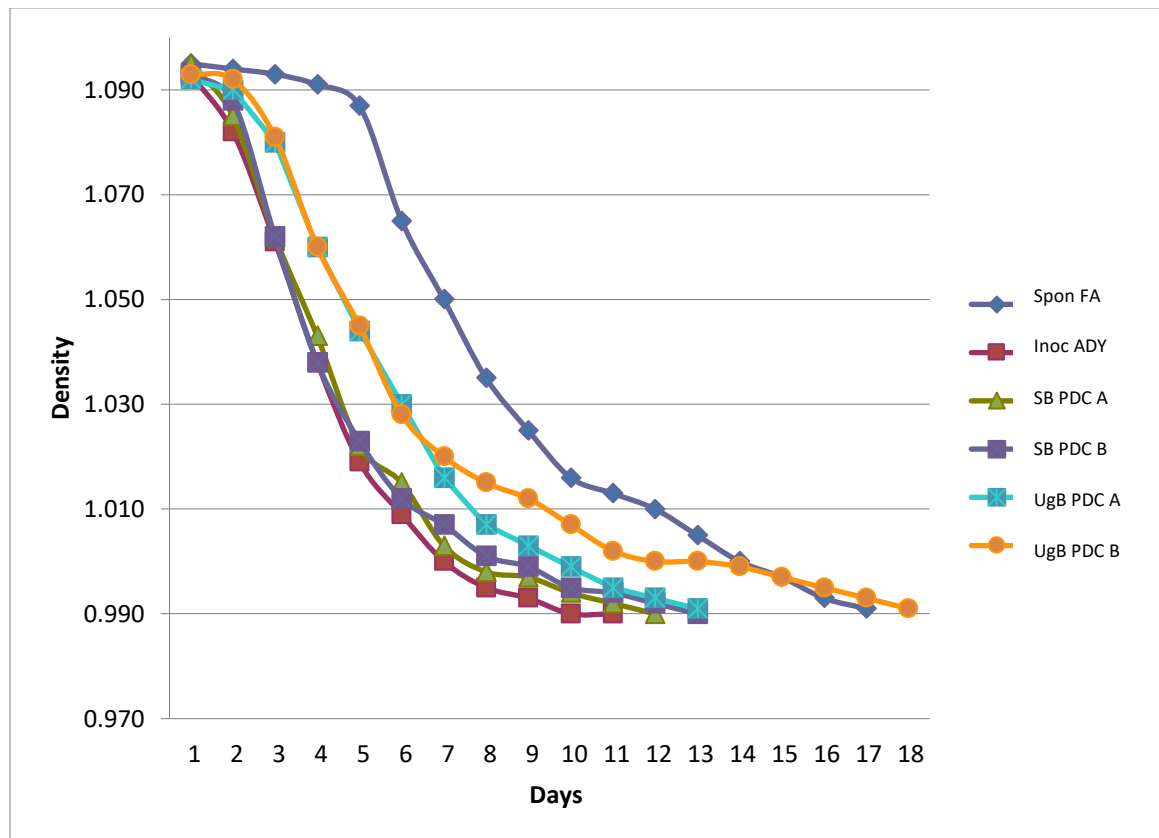


**Figure S1.** Fermentation curves of the 4 inoculated barrels with PdC (SB PDC A and B, UgB PDC A and B), spontaneous fermentation (Spon FA) and X5 inoculated barrel (Inoc ADY).



**Table S1.** 33 *S. cerevisiae* strains from industrial yeast production commonly used in Nouvelle Aquitaine region, in organic and conventional farming system.

Commercial name	Strain	Distributor
Actiflore cerevisiae	522D	Laffort
Excellence B2		Lamothe Abiet
Lalvin BM 45		Lallemand
Levuline CHP	CIVC8130	Oenofrance
Lalvin CY 3079	BourgoBlanc	Lallemand
Excellence C1 Val oeno		Lamothe Abiet
Zymaflore F10	FZ 182	Laffort
Zymaflore F15		Laffort
Actiflore F33	F33	Laffort
Fermol Arome plus	PB2010	Spindal
Fermivin	7013	Littorale
Zymaflore FX10		Laffort
ICV-GRE	138 grenache	ICV
K1	Killer non marquée	Lallemand
L.A. L13	L13	Lamothe Abiet
Rhône L2226		Lallemand
Lallferm bio		IOC / Lallemand
Lalvin QA23	QA23	Lallemand
Lalvin 71B	71B	Lallemand
Levuline ALS	EG8	Oenofrance
Levuline BRG	UP 30Y5	Oenofrance
Oenoferm Bio		Littorale
Vitilevure KD	R2	Martin Vialatte
Zymaflore RX60	rx60	Laffort
SP organic		Martin Vialatte
Uvaferm CEG	CEG - Epernay 2	Lallemand
Achor vin 13	vin 13	Littorale
Vitilevure quartz		Martin Vialatte
Zymaflore VL1	vl1	Laffort
Zymaflore VL3	lv3	Laffort
Zymaflore X16	x16	Laffort
Zymaflore X5	x5	Laffort
Zymaflore 011 organiq		Laffort

**Table S2.** Microsatellite loci for *Saccharomyces cerevisiae* genotyping with, repeated motif, ORF, primer sequence, fluorescence dye, mix number and concentration used for 8 samples PCR mix preparation for each marker.

Site name	Motif and type	ORF or coordinates	Primers	Fluorescent dye	Multiplex	Quantity (nM)	Authors
ScAAT2	TAA	YBL084c	FW: CAGTCTTATTGCCTTGAACGA RV: GTCTCCATCTCCAAACAGCC	PET	1	100	4
ScAAT3	TAA	YDR160w	FW: TGGGAGGAGGGAAATGGACAG RV: TTCAGTTACCCGCACAATCTA	NED	1	200	1, 3
C5	GT	VI- 210250/210414	FW: TGACACAATAGCAATGGCCTTCA RV: GCAAGCGACTAGAACAAATCACA	VIC	1	50	5
C3	CAA	YGL139w	FW: CTTTTTATTACGAGCGGGCCAT RV: AAATCTCATGCTGTGAGGGGTAT	NED	1	100	5
C8	TAA	YGL014w	FW: CAGGTCGTTCTAACGTTGGTAAAATG RV: GCTGTTGCTGTTGGTAGCATTACTGT	6FAM	1	25	5
C11	GT	X- 518870/519072	FW: TTCCATCATAACCGTCTGGGATT RV: TGCCTTTTCTTAGATGGGCTTTC	6FAM	1	50	5
YKR072c	GAC	YKR072c	FW: AGATACAGAAGATAAGAACGAAAA RV: TTATTGATGCTTATCTATTATACC	PET	1	50	1, 2
ScAAT6	TAA	IX- 105711/105883	FW: TTACCCTCTGAATGAAAAACG RV: AGGTAGTTTAGGAAGTGAGGC	PET	1	100	1, 3
SCYOR26 7c	TGT	YOR267c	FW: TACTAACGTCAACACTGCTGCCAA RV: GGATCTACTGCAGTATACGGG	VIC	1	100	1, 4
YKL172w	GAA	YKL172w	FW: CAGGACGCTACCGAAGCTCAAAAG RV: ACTTTTGGCCAATTTCTCAAGAT	6FAM	2	25	2
ScAAT1	TTA	XIII-86902/87140	FW: AAAGCGTAAGCAATGGTGTAGATACTT RV: CAAGCCTCTCAAGCATGACCTTT	VIC	2	100	1, 3, 4
C4	TAA+TAG	XV- 110701/110935	FW: AGGAGAAAAATGCTGTTTATTCTGACC RV: TTTTCTCCGGGACGTGAAATA	NED	2	200	5
C9	TAA	YOR156c	FW: AAGGGTTCGTAACATATAACTGGCA RV: TATAAGGGAAAAGAGCAGATGGC	NED	2	100	5
ScAAT5	TAA	XVI- 897051/8970210	FW: AGCATAATTGGAGGAGTAAAGCA RV: TCTCCGCTTTTTTGTACTGCGTG	NED	2	100	5
C6	CA	XVI- 485898/485996	FW: GTGGCATCATATCTGTCAATTTTATCAC RV: CAATCAAGCAAAGATCGGCCCT	VIC	2	50	5
YPL009c	CTT	YPL009c	FW: AACCCATTGACCTCGTTACTATCGT RV: TTCGATGGCTCTGATAACTCCATTC	6FAM	2	50	1, 4

Authors:

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