

Danish Preferred 

21/02-2024



SARTRE (SJ 227170)

sejet
planteforædling

dlg

Lene Krusell
Sejet Planteforædling I/S

Sartre (SJ 227170)



Breeder: Sejet Planteforædling I/S



Pedigree: Yoda x LG Belcanto



National trial in: Denmark
Sweden
Germany
Poland




Sartre (SJ 227170)

– Index

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Index Result												
	RGT Planet				Prospect				Sartre			
	_41	_43	_45	_47	_41	_43	_45	_47	_41	_43	_45	_47
Extract	5	2	2	2	2	3	1	2	4	4	2	1
Friability	5	4	2	2	3	2	2	2	3	2	1	1
Beta-Glucan	3	3	1	1	3	2	1	1	5	3	1	1
Viscosity	3	2	1	1	2	2	1	1	3	2	1	1
FAN	5	4	3	2	5	5	4	2	5	4	2	1
Soluble N	5	4	4	3	5	5	4	3	5	5	1	2
Kolback	5	5	4	3	5	5	4	4	5	5	1	3
FAN dev.*	-13%	-4%	-6%	-2%	-6%	-11%	-13%	-3%	33%	1%	0%	8%
Soluble N dev.*	-10%	1%	-5%	-1%	-1%	-5%	-8%	-3%	17%	-3%	24%	2%
Kolback dev.*	-9%	-1%	-5%	0%	-2%	-5%	-10%	-5%	21%	0%	30%	3%
Proteolyse compared to modification	5 % lower				6 % lower				11 % higher			
Alpha-Amylase	5	4	4	3	5	4	4	3	5	5	3	3
Beta-Amylase	3	2	1	3	2	3	3	2	5	5	4	4
Limit Dextrinase	5	4	2	2	4	4	2	4	4	5	2	2
Attenuation	5	4	1	2	1	3	2	2	3	3	1	2
Turbidity	4	4	3	4	4	2	5	2	2	3	2	2
Index **	24	16	10	11	13	15	10	11	20	19	10	9
Index mean ***	23				23				24			

Sartre (SJ 227170)

– Results

Results from official trials Denmark 2022-23

	Yield official trials			Kernel quality					Disease resistance					Agronomy characters					NEMATODE I	NEMATODE II
	REL. YIELD			Response to fungicide treatment (hkg/ha)	Specific weight (kg/hl)	Protein (%)	Sorting > 2,5 mm	Sorting > 2,8 mm	Mildew coverage (%)	Rust coverage (%)	Rhynchosporium coverage (%)	Net blotch - net type coverage (%)	Ramularia coverage (%)	Heading (days)	Straw length (cm)	Tendency to lodging (0-10)	Breaking of ears at maturity (0-10)	Breaking of straw at maturity (0-10)		
	MEAN	2023 FUT	2022 VCU																	
Firefoxx	101	99	103	7,4	66,4	10,3	97	90	0	22	0,25	0	9	13-jun	60	0,4	2,6	2,5	R	R
Prospect	98	95	100	8,3	67	10,9	97	88	0	20	0,5	0,36	9	14-jun	62	0,4	2,2	1,7	R	R
RGT Planet	98	94	103	4,4	67,6	10,7	97	91	0	17	13	15	6	12-jun	65	0,5	1,5	3,4	R	R
Sartre	104	101	107	5,7	67,2	10,6	97	88	0	17	10	0	8	12-jun	59	0,8	2,5	2,5	R	R

Micromalting results Tystofte 2022-23

			Laureate 2022 Prospect 2023	RGT Planet	SJ 227170 - Sartre
Extract	% dm	2023	81.4	81.1	81.3
		2022	84,2	83,8	84,1
Viscosity	mPa*s	2023	1.49	1.51	1.49
		2022	1,44	1,45	1,45
Protein	% dm malt	2023	11.6	11.8	11.5
		2022	8,7	8,7	8,7
Soluble N	mg/100 g dm	2023	781	761	765
		2022	668	671	676
Kolbach index	%	2023	42	41	42
		2022	48	48	48
FAN	mg/100g dm	2023	148	134	139
		2022	134	129	134
Final attenuation	%	2023	83.7	84.2	83.4
		2022	84,9	85,4	84
Friability	%	2023	83	80	87
		2022	97	97	96
β-glucan	mg/l	2023	267	302	262
		2022	138	109	141
α-amylase,	DU/g dm	2023	49	53	47
		2022	62	60	51
β-amylase,	BU/gdm	2023	1048	1126	1015
		2022	852	1033	823

Micromalting results Frühvermälzung 2022

Sorte Gebiet		RGT Planet	Laureate	SARTRE
		Dänemark	Dänemark	Dänemark
Rohprotein Gerste (8,5-12,5 %)	%, wfr.	8,9	8,4	9,2
Sortierung > 2,8 mm Gerste	%	87,2	90,9	93,9
1. Sorte Gerste	%	95,8	98,8	98,8
iso 65 °C-Verfahren				
Extrakt Malz	%, lftr.	80,31	80,68	81,07
Viskosität (8,6 %)	mPas	1,541	1,516	1,548
Friabilimeter Mürbigkeit	%	91,5	94,9	93,6
Endvergärungsgrad	%, schb.	87,9	86,3	86,4
Farbe Fotometer	EBC	4,6	3,3	3,4
Löslicher Stickstoff Malz TrS.	mg/100g Malz-TrS.	600,1	573,7	645,8
Eiweiss-Lösungsgrad	%	43,8	44,5	46,3
Freier Amino-Stickstoff TrS.	mg/100g Malz TrS.	131,08	118,66	137,60
Beta-Glucan	mg/l	223	289	289
Alpha-Amylase	DU, wfr.	62	57	60
Beta-Amylase	BU, wfr.	621	695	706
Verkleisterungstemperatur	°C	63,9	65,1	64,5

Sverige VårkornBehandlat

Skörd kärna, kg/ha 15 % vh

FÖRSÖKSLED	2023
SJ 227170 - Sartre	110
Firefox (NSd)	103
Prospect (SJ 148527) (SSd)	99
RGT Planet (LmL)	99

Sartre (SJ 227170)

– Results



Results official trials Germany 2023

	Rel yield		Sorting		Disease resistance				
	Untreated	Treated	2,5 mm	2,8 mm	Mildew	Rust	Net blotch	Rhync	Ramu
Sartre - SJ 227170	107	107	98	88	2,3	2,3	1,8	4	3,5
RGT Planet	103	102	99	92	1,8	2,2	3	2,5	4,5
Accordine	98	96	98	87	1	1,8	2,7	3,3	3,8
Avalon	88	93	98	85	1,8	2,1	4,9	3,8	3

Sartre (SJ 227170)

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Results









Micromalting results official trials Germany 2023

	RGT Planet	Accordine	Avalon	Sartre - SJ 227170
Spec. Weight	66,7	66,7	65,6	67,3
Protein %	10,5	11,2	11,6	10,5
Extract % dm	81,9	81,4	81,5	82,0
Sol. N mg/100g	672	691	747	696
Kolbach %	42	40	41	43
Friability %	94	97	96	96
Viscosity mPas	1,48	1,46	1,48	1,48

Sartre (SJ 227170) -

Summary

-  Very high yielding across Europe
-  Good kernel quality
-  Good extract levels - Tystofte, Frühvermälzung and Germany WP1
-  Good modification degree
-  Enzymes as standards
-  Low turbidity
-  Gelantinization as standards – frühvermälzung 2022

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