

Danish Preferred

KWS Spring Malting Barley
KWS THALIS

KWS Cereals | February 2022

SEEDING
THE FUTURE
SINCE 1856





KWS THALIS

- EU registration
- Approved on French variety list 2021. EU catalogue
- Tested 2 years in Danish VCU

- CBMO
 - Accepted for Technical Validation France
 - Decision for Industry testing France done
 - Approved for brewing by CBMO in February 2022

- Danish Preferred
 - Applied for Danish Preferred. Stress-test results mid-February 2022

- Applied and tested in several EU countries, including Baltics, Sweden and Finland

KWS THALIS

Yield and Quality



	Landsforsøg Relative yield			Raw protein (%)		Grading >2,5 mm (%)		Grading >2,8 mm (%)		Hectolitre weight (kg/hl)	
	Mean 20-21 (n=20)	2021 (n=10)	2020 (n=10)	2021	2020	2021	2020	2021	2020	2021	2020
KWS THALIS	101	101	101	10,3	10,0	96	97	83	84	67,8	68,5
Laureate	104	104	103	10,4	10,1	98	97	91	89	66,8	68,4
RGT Planet	100	98	102	10,3	10,2	97	97	86	87	67,8	69,1
Mixture	100	100	100	10,5	10,2	96	96	80	79	67,9	69,0

KWS THALIS

Diseases



	Fungicide respons (hkg/ha)			Nematode		Barley rust (%)		Rhynchosporium (%)		Net blotch (%)		Ramularia (%)	
	2021	2020		Race I	Race II	2021	2020	2021	2020	2021	2020	2021	2020
KWS THALIS	11,6	5,7	mlo	R	R	8	10	1,9	9	9	8	9	18
Laureate	8,8	5,3	mlo	S	S	5	3,9	2,6	5	0,09	0	8	20
RGT Planet	9,8	7,2	mlo	R	R	12	8	2,2	7	18	26	13	26
Mixture	7,8	6,6	-	-	-	11	10	3,7	16	6	1	14	23

	Maturity (date)		Straw length (cm)		Lodging, FUT (0 - 10)		Lodging, OBS (0 - 10)		Ear breaking (0 - 10)		Straw breaking (0 - 10)	
	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021	2020
KWS THALIS	24-Jul	25-Jul	72	73	0,9	0,8	0	0	0,7	1,7	2,3	4,5
Laureate	26-Jul	29-Jul	70	70	1	1	0	0	0,7	4,3	3,5	3,5
RGT Planet	26-Jul	28-Jul	70	76	1,1	0,9	0	0	0,3	3,7	2,8	4,5
Mixture	25-Jul	26-Jul	66	70	0,9	0,8	0,8	0,1	0,3	2,3	2	2,0

KWS THALIS

Sweden & Finland



SWEDEN	2021		2021																		
	YIELD	85% DM	Ripening	Lodging	Brackling	Height	Specific	Protein	Starch	Sieving	Brown-	Net-									
Spring barley 2021	untreated	treated	days	0 = 100% lodging	0 = no brackling	cm *	weight	%	%	>2,5 mm	rust	blotch									
	dt/ha	dt/ha		0-100 *	0-100 *		g/l index			%	%	%									
KWS Thalís	61,9	67,0	106	101	99	85	95	35	176	61	104	682	102	12,1	97	60,8	101	98	101	8	11
Laureate C	63,0	65,7	104	102	100	89	100	17	86	59	101	669	100	12,2	98	60,5	100	98	101	5	5
RGT Planet C	59,6	64,4	101	102	100	82	91	32	164	63	106	677	101	12,3	98	60,5	100	98	100	14	14

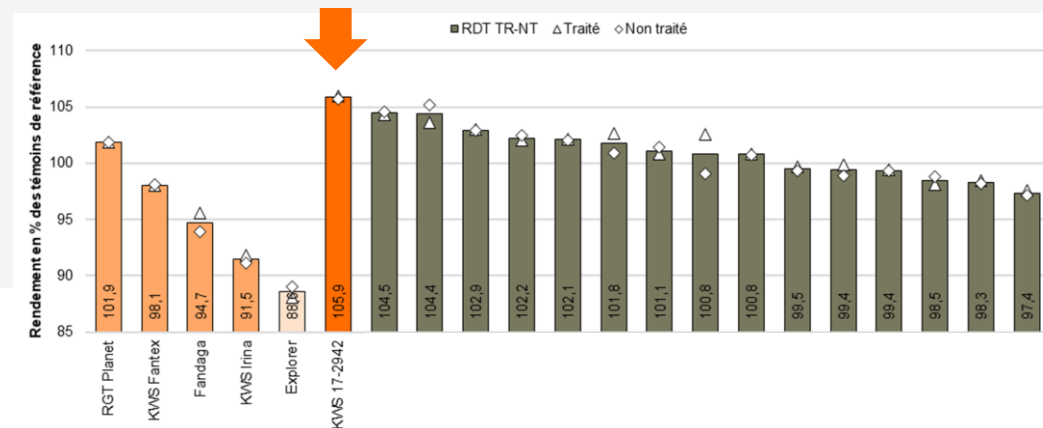
Finland	Yield		Ripening		Specific weight		Protein content	
	kg/ha	rel	days	rel	kg/hl	rel	%	rel
KWS Thalís	5622	117	78	99	68.9	102	12.2	96
RGT PLANET	4824	100	79	100	67,4	100	12,8	100

KWS THALIS

NEW

Performance

- ✓ Early ripening and excellent yields
- ✓ Good resistance , low lodging and straw/ear break
- ✓ Good specific weight and mid calibration
- ✓ Null-LOX-1 quality



CBMO Variety recommendation 2022 France



LIST OF PREFERRED VARIETIES of MALTEURS DE FRANCE and BRASSEURS DE FRANCE MALTING BARLEY - CROP 2022



PREFERRED VARIETIES

SPRING BARLEY		WINTER BARLEY	
		2 ROWS	6 ROWS
More than 15 000 ha →	RGT PLANET / FANDAGA / KWS FANTEX / LAUREATE		ETINCEL / KWS FARO / VISUEL
Less than 15 000 ha →	SEBASTIAN / SUNSHINE / KWS IRINA / FOCUS	SALAMANDRE	ISOCEL
Limited use →	EXPLORER		PIXEL
VARIETIES IN COMMERCIAL AND INDUSTRIAL OBSERVATION			
Step 2 →	LG TOSCA		DEMENTIEL/MASCOTT (Y2)
Step 1 →	VALERIAN/LG BELCANTO/AMIDALA/YODA		KWS EXQUIS (JNO) *
* : As sector needs JNO tolerant varieties, this variety has been approved for observation, but absolutely must be confirmed with industrial tests.			
VARIETIES ADMITTED IN TECHNOLOGICAL VALIDATION			
CB-SCORE, LEXY, KWS THALIS , LG FLAMENCO, SHETTY			

Seed Multiplication Spring Barley France 2021

	ha	% MS
RGT Planet	7.952	63%
KWS Fantex	1.188	9%
LG Tosca	742	6%
Fandaga SU	589	4%
Focus Sec.	443	4%
Laureate SY	301	2%
Yoda BR	295	2%
KWS Thalís	236	2%
Explorer Sec.	115	1%
LG Flamenco	87	1%

Trend 2022



CBMO Decision 03.02.2022

- The 2 row Spring varieties, registered in January 2021, **KWS THALIS**, SHETTY, LG FLAMENCO and LEXY are approved for brewing by the CBMO.

KWS THALIS

Stress test



Index Result

	Laureate_45	Laureate_43	Laureate_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	KWS Premis_45	KWS Premis_43	KWS Premis_41	KWS Thalib_45	KWS Thalib_43	KWS Thalib_41
Extract	1	1	3	3	4	4	2	3	3	2	3	3
Friability	3	3	5	1	2	4	1	2	4	1	2	4
Beta-Glucan	2	3	5	1	2	3	1	2	4	1	2	4
Viscosity	2	3	4	1	2	4	1	2	4	1	2	3
FAN	2	4	5	1	3	4	3	4	5	1	2	3
Soluble N	1	3	4	1	2	3	2	4	4	1	2	3
Kolback	1	2	4	1	2	3	2	3	3	1	2	3
FAN dev.*	6%	-1%	4%	7%	-4%	1%	-7%	-12%	-3%	4%	3%	14%
Soluble N dev.*	1%	3%	4%	1%	2%	3%	2%	4%	4%	1%	2%	3%
Kolback dev.*	1%	2%	4%	1%	2%	3%	2%	3%	3%	1%	2%	3%
Proteolyse compared to modification	5 % higher			2 % higher			4 % lower			4 % higher		
Alpha-Amylase	3	4	4	2	3	4	3	4	4	2	3	4
Beta-Amylase	4	4	4	2	2	3	2	2	3	4	4	4
Limit Dextrinase	3	3	3	2	2	3	2	2	2	2	3	3
Attenuation	2	3	3	2	3	5	2	2	2	1	2	3
Turbidity	1	1	1	3	2	3	1	3	4	1	1	1
Index **	10	12	18	12	16	21	10	14	16	9	14	17
Index mean ***	25			31			25			24		

	Reference VLB	Breeder labelling	Gelatinization temperatur
V2021029361	RGT Planet	Abildgaard	DP_21_1 64,7
V2021029362	Laureate	Abildgaard	DP_21_2 64,8
V2021029364	KWS Thalib	Abildgaard	DP_21_4 64,8
V2021029365	KWS Premis	Abildgaard	DP_21_5 64,1
V2021029371	RGT Planet	Tystofte	DP_21_11 64,9
V2021029372	Laureate	Tystofte	DP_21_12 65,6
V2021029374	KWS Thalib	Tystofte	DP_21_14 65
V2021029375	KWS Premis	Tystofte	DP_21_15 65,3
V2021029381	RGT Planet	Sejet	DP_21_21 64,9
V2021029382	Laureate	Sejet	DP_21_22 65
V2021029384	KWS Thalib	Sejet	DP_21_24 64,2
V2021029385	KWS Premis	Sejet	DP_21_25 64,4

Breeder: DAKOFO; Order: A2021005253; Samples: 30 barley
Reference customer: DANISH PREFERRED

Explanation to the color indications: The best of the standards is for each parameter and steeping degree assigned light green. Values lower than best standard are marked with increasingly intense green

Red is used for values being two points higher than best standard, the higher value the more intense red.

* = deviation from the calculated value (calculated from the degree of modification).

** = 2*Extract + Mean(Friability, Beta-glucan, Viscosity) + Mean(Alpha, Beta-amylase, Limit Dextrinase) + Attenuation + Turbidity/3

*** = Index_45 + Mean(Index_43, Index_41)