

DANISH MALTING BARLEY

Catalogue 2026

Updated: 08.04.2026

Introduction

The Danish Preferred Committee welcomes you to the Danish Malting Barley Catalogue. In this catalogue, you will find a short presentation on the varieties which have finished industrial testing.

Further information on the program and full dataset for both Stress- and Industry Test can be accessed via <https://danishpreferred.com/>

Danish Preferred approved varieties

Danish Preferred Approved Varieties			
Variety	Breeder	Year of approval	Page
RGT Planet	RAGT	2017	*
Laureate	Syngenta	2018	6
Prospect	Sejet	2022	7
Skyway	Nordic Seed	2022	8
Firefoxx	Ackermann Saatzucht	2023	9
CB-Score	Carlsberg	2024	10
KWS Thalix	KWS	2025	11
NOS Gambit	Nordic Seed	2025	12

*Pre-approved variety – well known and accepted by malting and brewing industry

Short description of program

Preconditions for application:

- Two years results from either Danish Official Testing or Farmer Union Trials.
- Two years of micro malting performed at VLB with samples and application through the Tystofte Foundation.
- Minimum 5 tons of seed available at application.

Stress Test:

- Micro malting from three locations under variable conditions: Steeping degree 45%, 43%, 41%; germination temp. 18/14,5°C; 5 days germination; isothermal mashing at 65 °C.
- The applicants will be invited to present the candidate varieties for the committee and comment on the results from stress test/micro malting.

Industry Test:

- Large scale malting at the two Danish malting companies (Viking Malt and Fuglsang) and one large scale malting at one of the other partners in the program (currently: Avangard Malz, Cargill, Crips Malting Group, Holland Malt, Malteurop, Soufflet)
- Brewing test at three breweries in Denmark or abroad.
- The industry step will have to be completed during either one or two growing seasons.

Final approval:

- Before final approval, a multiplication acreage of 500 hectares is required.

Distribution of Industry Tests

Danish Preferred Industry test overview																													
Variety	Breeder	Applicant	Supplier	Malting plant	Brewery	2024			2025							2026				2027									
						Fuglsang, DK	Fuglsang, DK	Viking Malt, DK	Albani/Thisted, DK	Albani/Thisted, DK	Carlsberg, NO	tdb	Carlsberg, NO	Albani/Thisted, DK	Abroad, tdb	Carlsberg, NO	Albani/Thisted, DK	Abroad, tdb	Carlsberg, SE	Albani/Thisted, DK	tdb	Albani/Thisted, DK	Carlsberg, tdb	tdb	Carlsberg, tdb	tdb	Albani/Thisted, DK	Carlsberg, tdb	tdb
Tests to be performed with grain lots from crop 2024 and 2025																													
LG Caruso	Limagrain	Limagrain	DLA/Danish Agro	x		x	x																						
Tests to be performed with grain lots from crop 2024 and 2026																													
NOS Lollipop*	Nordic Seed	Nordic Seed	DLA/Danish Agro		x																								
Tests to be performed with grain lots from crop 2025 and 2026																													
Fontane	Sejet	Sejet	DLG					x	x	x																			
LG Allegro	Limagrain	Sejet	DLG								x	x	x																
CB Navis	Carlsberg	Carlsberg	DLG												x	x	x												
Belter	Secobra	Nordic Seed	DLA/Danish Agro															x	x	x									
Tests to be performed with grain lots from crop 2026 and 2027																													
KWS Enduris**	KWS	KWS	Hornslyd Købmandsgaard																										
Sy Arrow	RAGT	Nordic Seed	DLA/Danish Agro																										

*No test to be done using 2025 Lollipop, due to quality and quantity issues. Third year awarded

**Industry test to be done same year as stresstest

VARIETY NAME: LAUREATE

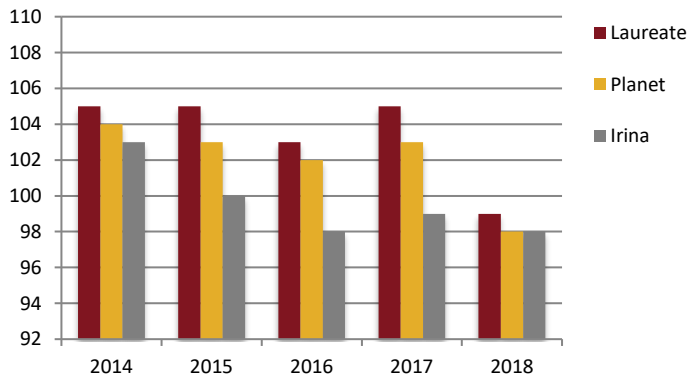


GENERAL INFORMATION

Variety: Laureate, Non GN variety
 Type: Two row spring malting barley
 Breeder: Syngenta, Germany
 Representative: Sejet, Denmark
 Distributer: DLG
 Pedigree: Sanette x Concerto
 Status: 7.007 ha multiplication in DK in 2024
 Geography: DK, UK, SE, FR, PL, DE, IR and LT

AGRONOMY

Data from Danish Official and National trials.
 Relative yield index.



Data from Danish National Trials 2014-2018	Irina/Planet	Laureate
Relative yield %	101	104
Protein %	10,7	10,6
Grading >2,5mm %	97	97
Grading >2,8mm %	86	89
Specific weight (hl/kg)	66,7	66,4
Maturity	02 Aug	02 Aug
Straw length in cm	60	61
Lodging (0-10, 1 is best):	0,6	0,7
Straw breaking (0-10, 1 is best)	3,1	4,1
Mildew (% coverage)	0	0
Barley rust (% coverage)	12	6
Skald (% coverage)	3,4	1,7
Net Blotch (% coverage)	1,3	0,04

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VLB MICRO MALTING

Stress test crop 2017 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2017.

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Laureate_45	Laureate_43	Laureate_41
Extract	3	3	3	3	4	4	1	1	3
Friability	3	4	5	2	3	5	2	3	5
Beta-Glucan	2	4	5	2	3	5	2	3	5
Viscosity	2	3	5	1	2	4	1	2	3
FAN	2	2	3	2	2	3	3	3	3
Soluble N	2	2	3	2	2	3	2	2	3
Kolbach	2	3	3	2	2	3	2	2	3
Alpha-Amylase	4	4	4	1	2	3	1	2	3
Beta-Amylase	1	1	2	1	1	1	2	2	2
Limit Dextrinase	1	2	3	1	2	2	2	3	4
Attenuation	1	2	2	1	1	2	1	1	5
Turbidity	1	2	1	3	4	3	2	2	1

Positive:

- Good extract level at all steeping levels
- Good malt modification values

Negative:

- Low attenuation at steeping degree 41%

INDUSTRY MALTING

Comments to malted barley lots:

- No comments to appearance of barley and low level of Skinned Grains compared to general level of crop 2017
- High Germination Energy in all malted barley lots
- Very good screening >2,8 mm
- High Water Sensitivity noticed

Malt results - Positive:

- Generally high extract levels in all trials
- Very high alpha-amylase activity found in one of the trials and better than average beta amylase levels found generally
- High Attenuation

Malt results - Negative:

- Below average malt modification expressed by betaglucan level and friability values

INDUSTRY BREWING

Brew house:

- Very good wort collection reported - Good laureating behavior
- Good extract yield in the brew house reported

Fermentation and filtration:

- As normal

Packaged beer:

- As normal

RECOMMENDATION

Laureate is a very high yielding malting barley variety with good agronomic features. Barley grading in terms of grain fraction >2,8 mm is good. Laureate was found to be slightly difficult regarding malt modification. Notice that Laureate is a Non-GN variety! Very high enzymatic level and high Attenuation in produced malt. Good brewery performance found through all trials.

VARIETY NAME: PROSPECT

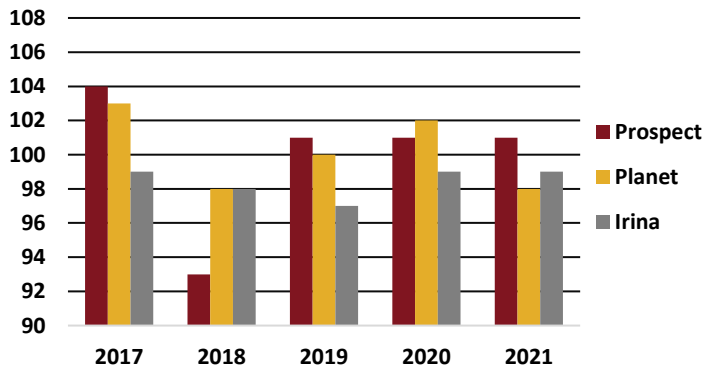


GENERAL INFORMATION

Variety: Prospect, Non GN variety
 Type: Two row spring malting barley
 Breeder: SEJET
 Representative: SEJET
 Distributer: DLG
 Pedigree: KWS Irina x Overture
 Status: 2.209 ha multiplication in DK in 2024
 Geography: DK, DE, SE, FI, FR, UA

AGRONOMY

Data from Danish Official and National trials.
 Relative yield index.



Data from Danish National Trials 2017-2021	Irina/Planet	Prospect
Relative yield %	99	100
Protein %	11	11
Grading >2,5mm %	97	97
Grading >2,8mm %	85	86
Specific weight (hl/kg)	68	69
Maturity	29-jul	29-jul
Straw length (cm)	65	67
Lodging (0-10, 1 is best)	0,5	0,5
Mildew (% coverage)	0	0
Barley rust (% coverage)	12,4	11,8
Scald (% coverage)	3,0	1,9
Net blotch (% coverage)	6,8	1,1

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VLB MICRO MALTING

Stress test crop 2017 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2017.

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Prospect_45	Prospect_43	Prospect_41
Extract	3	3	3	3	4	4	2	2	4
Friability	3	4	5	2	3	5	2	3	5
Beta-Glucan	2	4	5	2	3	5	2	3	4
Viscosity	2	3	5	1	2	4	2	2	3
FAN	2	2	3	2	2	3	3	2	3
Soluble N	2	2	3	2	2	3	2	2	2
Kolbach	2	3	3	2	2	3	2	2	2
Alpha-Amylase	4	4	4	1	2	3	2	2	3
Beta-Amylase	1	1	2	1	1	1	3	2	4
Limit Dextrinase	1	2	3	1	2	2	2	4	5
Attenuation	1	2	2	1	1	2	2	4	5
Turbidity	1	2	1	3	4	3	2	4	2

Positive:

- Average Extract level and Modification values

Negative:

- Low level of Beta Amylase and Limit Dextranase activity
- Low Attenuation level seen at low steeping degrees

INDUSTRY MALTING

Comments to malted barley lots:

- Impressively high Germination Energy in all malted barley lots
- No comments to visual appearance of barley
- Low to average level of skinned grains seen

Malt results - Positive:

- Good high extract levels in all malted lots
- Good malt Modification seen
- Very good Alpha-Amylase Activity
- Beta-Amylase on acceptable level and not low as seen in the stress test
- Nice low Haze in wort

Malt results - Negative:

- No significant negative values found for tested parameters

INDUSTRY BREWING

Brew house:

- Good lautering/wort collection
- Normal to very good brewhouse yield seen

Fermentation and filtration:

- Normal / good fermentation and beer filtration reported
- Final Attenuation normal to high

Packaged beer:

- As Normal

RECOMMENDATION

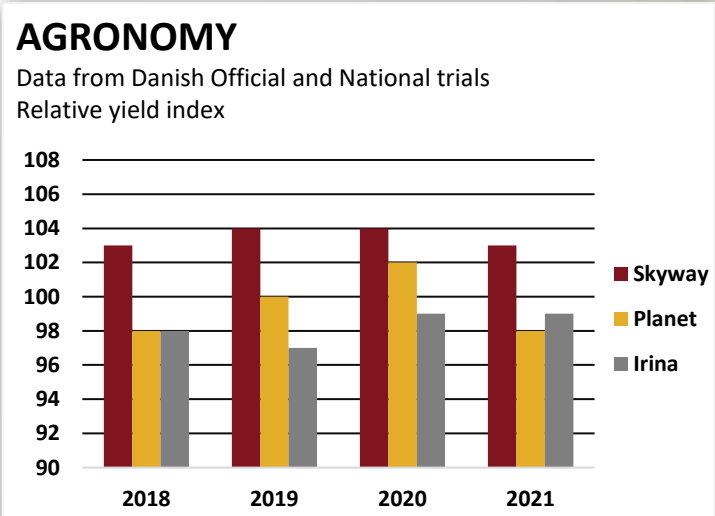
Prospect is an average yielding malting barley variety with good agronomic features and good disease resistance. All malted barley lots were of good quality especially in terms of Germination Energy. Beta Amylase and Final Attenuation were low in stress test. - However, this was not confirmed in full scale industry test.

VARIETY NAME: SKYWAY



GENERAL INFORMATION

Variety: Skyway
 Type: Two row spring malting barley
 Breeder: Nordic Seed
 Representative: Nordic Seed
 Distributer: DLA Agro/Danish Agro
 Pedigree: RGT Planet * NOS 2105-11
 Status: 2.428 ha multiplication in DK in 2024
 Geography: AT, DK, SE, FI, UK, UA, IR, Baltics



Data from Danish National Trials 2018-2021	Irina/Planet	Skyway
Relative yield %	99	104
Protein %	11,1	10,8
Grading >2,5mm %	97	98
Grading >2,8mm %	85	91
Specific weight (hl/kg)	68,3	69,7
Maturity	28/7	28/7
Straw length (cm)	65	67
Lodging (0-10, 1 is best)	0,5	0,5
Mildew (% coverage)	0	0
Barley rust (% coverage)	11,3	16,8
Scald (% coverage)	2,9	5,6
Net blotch (% coverage)	8,4	1,5

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VLB MICRO MALTING

Stress test crop 2019 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2019.

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Skyway_45	Skyway_43	Skyway_41
Extract	3	5	5	1	4	4	1	2	4
Friability	3	4	5	1	2	4	1	2	5
Beta-Glucan	2	4	5	1	2	4	1	3	5
Viscosity	2	3	4	1	1	4	1	3	5
FAN, diff.*	35	27	25	31	25	23	16	14	5
Soluble N, diff.*	33	31	40	24	23	22	-37	-21	-36
Kolback, diff.*	0	0	1	2	2	1	-3	-1	-3
Alpha-Amylase	4	4	5	1	1	2	3	2	4
Beta-Amylase	3	2	3	3	4	3	1	2	2
Limit Dextrinase	1	2	3	2	1	3	1	1	2
Attenuation	3	3	3	3	3	4	1	2	3
Turbidity	1	1	1	2	5	5	1	1	2
Index **	18	23	25	13	23	28	8	13	24
Index mean ***	42			38			26		

Positive:

- Good extract – with low level of skinned grains
- Good levels of beta-amylase and limit dextrinase at all steeping degrees
- Good final attenuation at all steeping degrees

Negative:

- Somewhat low level of alpha-amylase
- Low proteolytic activity observed

INDUSTRY MALTING

Comments to malted barley lots:

- All lots reported to be healthy and good looking
- Good germination energy

Malt results - Positive:

- Average to high extract levels in all malted lots
- Nice low haze in wort
- Good modification

Malt results - Negative:

- Low alpha-amylase activity
- Average to low final attenuation found on lab fermentation
- Slightly low proteolytic activity

INDUSTRY BREWING

Brew house:

- Normal to good brewhouse yield seen

Fermentation and filtration:

- Good / very good fermentation time and beer filtration reported
- End-fermentation reported to be normal to good

Packaged beer:

- As Normal

RECOMMENDATION

Skyway is a high yielding malting barley variety with good grading and average agronomic features. Skyway had high extract in all malted lots and a good modification. Skyway is slightly low in alpha-amylase activity. Final attenuation was found to be on the lower side, however end-fermentation in final full-scale product was normal to good. Malting plants need to be aware of low proteolytic activity when malting Skyway.

VARIETY NAME: FIREFOXX



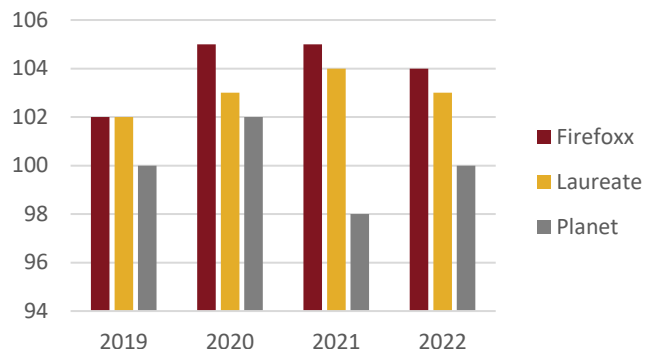
GENERAL INFORMATION



Variety: Firefoxx, Non-GN variety
 Type: Two row spring malting barley
 Breeder: Ackermann Saatzzucht GmbH & Co. KG
 Representative: Nordic Seed A/S
 Distributer: Nordic Seed A/S
 Pedigree: Chanson*Acorn
 Status: 1.993 ha. multiplication in DK 2024
 Geography: DK, SE, UK, NL, LT, PL, RU

AGRONOMY

Data from Danish Official and National trials
 Relative yield index



Data from Danish National Trials 2019-2022	Laureate/Planet	Firefoxx
Relative yield %	102	104
Protein %	10,4	10,3
Grading >2,5mm %	97,0	96,3
Grading >2,8mm %	87,6	86,3
Specific weight (hl/kg)	67,8	67,2
Maturity	30/7	29/7
Straw length (cm)	72	69
Lodging (0-10, 1 is best)	0,5	0,6
Mildew (% coverage)	0	0
Barley rust (% coverage)	10,9	14,8
Scald (% coverage)	4,5	5,1
Net blotch (% coverage)	9,3	0,1

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VLB MICRO MALTING

Stress test crop 2019 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2019.

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	Firefoxx_45	Firefoxx_43	Firefoxx_41
Extract	3	5	5	1	4	4	1	1	3
Friability	3	4	5	1	2	4	1	3	4
Beta-Glucan	2	4	5	1	2	4	1	3	4
Viscosity	2	3	4	1	1	4	1	2	4
FAN, diff. *	35	27	25	31	25	23	27	20	13
Soluble N, diff. *	33	31	40	24	23	22	9	2	4
Kolback, diff. *	0	0	1	2	2	1	1	1	0
Alpha-Amylase	4	4	5	1	1	2	5	5	5
Beta-Amylase	3	2	3	3	4	3	5	5	5
Limit Dextrinase	1	2	3	2	1	3	3	2	3
Attenuation	3	3	3	3	3	4	3	3	5
Turbidity	1	1	1	2	5	5	1	1	1
Index **	18	23	25	13	23	28	14	16	25
Index mean ***	42			38			35		

Positive:

- Good extract levels at all steeping degrees
- Good final attenuation at 45 and 43 steeping degree
- Excellent turbidity at all steeping degrees

Negative:

- Very low level of alpha-amylase and beta-amylase

RECOMMENDATION

Firefoxx is a high yielding malting barley variety, with good agronomic features. Firefoxx is a Non-GN variety ((dual-purpose)) fit for distilling. Firefoxx showed high extract values in all malted lots. The variety showed very low level of alpha- and beta-amylase in the stress test however this was not confirmed in the industry test where Firefoxx showed a normal enzyme activity and a normal to good level of final attenuation.

INDUSTRY MALTING

Comments to malted barley lots:

- All lots reported to be healthy and good looking
- Good Germination Energy

Malt results - Positive:

- High extract levels in all malted lots
- Compared to stress test results two of three full scale malted lots showed high alpha-amylase

Malt results - Negative:

- One malting showed several bad results, but this is due to the malting process not taking origin into account

INDUSTRY BREWING

Brew house:

- Normal brewhouse yield seen

Fermentation and filtration:

- Slightly faster fermentation speed than normal
- Good yeast sedimentation/cropping seen

Packaged beer:

- As Normal

VARIETY NAME: CB-Score



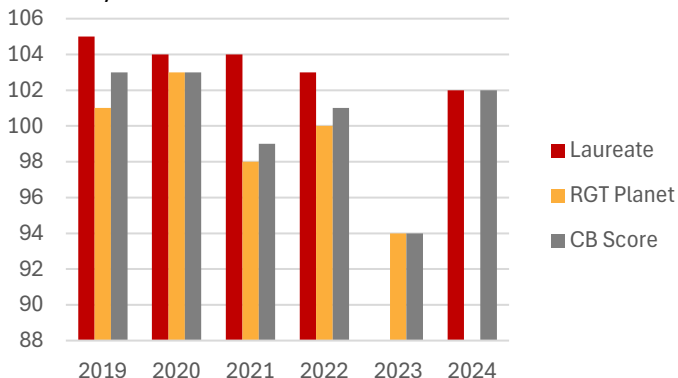
GENERAL INFORMATION

Variety: CB Score
 Type: Two row spring malting barley 4G-type:
 No DMS, Double Null-LOX, and Proant free
 Breeder: Carlsberg
 Representative: Sejet
 Distributer: DLG
 Pedigree: (China x RGT Planet) x (Lauxana x Laureate)
 Status: 1.140 ha. multiplication in EU 2024
 Geography: DK, UK, FR, UA

AGRONOMY

Data from Danish Official and National trials

Relative yield index



Data from Danish National Trials 2019-2024	Laureate/Planet	CB Score
Relative yield %	101,4	100,3
Protein %	10,3	10,5
Grading >2,5mm %	96,0	95,0
Grading >2,8mm %	86,0	84,0
Specific weight (hl/kg)	67,3	66,6
Maturity	31/7	2/8
Straw length (cm)	70,0	67,0
Lodging (0-10, 1 is best)	0,5	0,7
Mildew (% coverage)	0,0	0,0
Barley rust (% coverage)	10,2	10,7
Scald (% coverage)	4,9	2,7
Net blotch (% coverage)	9,0	0,1

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VLB MICRO MALTING

Stress test crop 2020 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2020.

	KWS Irina_45	KWS Irina_43	KWS Irina_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	CB Score_45	CB Score_43	CB Score_41
Extract	3	5	4	3	3	5	2	1	2
Friability	1	4	5	1	2	5	2	4	5
Beta-Glucan	2	4	5	1	2	4	2	4	5
Viscosity	2	3	5	1	2	4	2	3	4
FAN	2	3	4	1	3	4	2	3	4
Soluble N	3	4	5	1	3	4	1	2	3
Kolback	3	3	4	1	3	4	1	2	3
Alpha-Amylase	5	5	5	3	4	3	2	2	1
Beta-Amylase	1	2	3	2	2	1	4	4	4
Limit Dextrinase	2	3	2	2	3	2	2	3	4
Attenuation	2	5	4	1	2	5	2	4	3
Turbidity	5	3	1	5	3	4	1	1	1
Index **	15	24	22	13	15	24	14	16	18
Index mean ***	38			32			31		

Positive:

- Good extract levels at all steeping degrees
- Good final attenuation at 45% and 41% steeping degree
- Excellent turbidity at all steeping degrees, especially 45%

Negative:

- Very low-level beta-amylase

INDUSTRY MALTING

Comments to malted barley lots:

- All barley lots reported to be healthy and good looking
- Good Germination Energy seen

Malt results - Positive:

- High extract levels in all malted lots
- Above average alpha-amylase activity in both tests
- Low haze in wort
- Relatively low levels of beta-glucan
- 4G-type: No DMS, no Lipoxygenase activity and Proant free
- PUG (partly unmodified grains) above average level
- Potential less intensive killing due to no DMS to be explored

Malt results - Negative:

- Both tests had a low level of Beta-amylase activity, which was also seen in the VLB micro malting

INDUSTRY BREWING

Brew house:

- Normal brewhouse yield seen
- Normal mashing performance and wort collecting time
- Brewhouse performance data, confirmed potential for reduced wort boiling

Fermentation and filtration:

- Normal fermentation time, yeast sedimentation and beer-filtration performance
- No need for beer stabilization resulting in crystal clear beer

Packaged beer:

- Normal Flavor and Foam Stability

RECOMMENDATION

CB Score is an average yielding malting barley. Micro malting, industrial malting and industrial brewing showed good results. Very low level of beta-amylase could be observed. CB Score has unique characteristics: no DMS enables energy savings in both malting and brewing, Double Null-LOX characteristics enhanced better flavor stability and Proant free enables beer filtration without the use of stabilizing agents.

VARIETY NAME: KWS Thalís

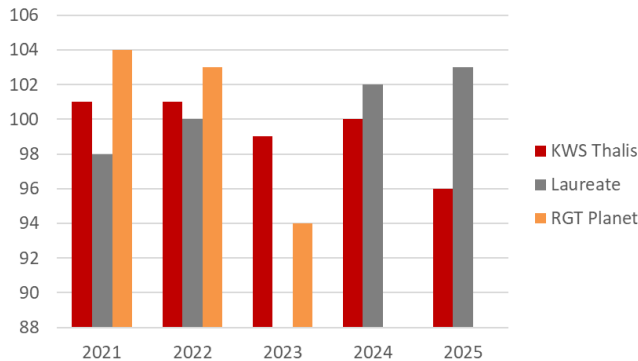


GENERAL INFORMATION

Variety: KWS Thalís
 Type: Two row spring malting barley 1G-type: Single Null-LOX
 Breeder: KWS
 Representative: KWS
 Distributer: Ewers/Hornslyd
 Pedigree: (KWS Loxanne x AC 11-546-18/1)xRGT Planet
 Status: 771 ha multiplication in DK in 2025
 Geography: DK, SE, NL, BE, FR, UK, ES, PL, CZ, SI, UA, EE, LT, LV

AGRONOMY

Data from Danish Official and National trials
 Relative yield index



Data from Danish National Trials 2020-2025	Laureate/Planet	KWS Thalís
Relative yield %	101	100
Protein %	10,3	10,3
Grading >2,5mm %	96,3	95,1
Grading >2,8mm %	87	82
Specific weight (hl/kg)	67	67
Maturity	29/7	27/7
Straw length (cm)	68,7	66,5
Lodging (0-10, 1 is best)	0	0
Mildew (% coverage)	0	0
Barley rust (% coverage)	10,4	12,7
Scald (% coverage)	4,6	2,6
Net blotch (% coverage)	8,3	4,9

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VLB MICRO MALTING

Stress test crop 2022 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2022

	Laureate_45	Laureate_43	Laureate_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	KWS Thalís_45	KWS Thalís_43	KWS Thalís_41
Extract	1	1	3	3	4	4	2	3	3
Friability	3	3	5	1	2	4	1	2	4
Beta-Glucan	2	3	5	1	2	3	1	2	4
Viscosity	2	3	4	1	2	4	1	2	3
FAN	2	4	5	1	3	4	1	2	3
Soluble N	1	3	4	1	2	3	1	2	3
Kolback	1	2	4	1	2	3	1	2	3
FAN dev.*	6%	-1%	4%	7%	-4%	1%	4%	3%	14%
Soluble N dev.*	1%	3%	4%	1%	2%	3%	1%	2%	3%
Kolback dev.*	1%	2%	4%	1%	2%	3%	1%	2%	3%
Proteolyse compared to modification	5% higher			2% higher			4% higher		
Alpha-Amylase	3	4	4	2	3	4	2	3	4
Beta-Amylase	4	4	4	2	2	3	4	4	4
Limit Dextrinase	3	3	3	2	2	3	2	3	3
Attenuation	2	3	3	2	3	5	1	2	3
Turbidity	1	1	1	3	2	3	1	1	1
Index **	10	12	18	12	16	21	9	14	17
Index mean ***	25			31			24		

Positive:

- Good Final Attenuation at all steeping degree
- Excellent Turbidity at all steeping degrees

Negative:

- Average/low level of Beta-Amylase

INDUSTRY MALTING

Comments to malted barley lots:

- Healthy looking grains
- Good Germination Energy
- Average to good grading
- Low level skinned kernels

Malt results - Positive:

- Average to high extract level
- Average Beta-Glucan levels in wort
- Above average Friability
- Average to low Viscosity
- Average to low Haze in wort
- In the higher range for Final Attenuation

Malt results - Negative:

- Above average PUG

INDUSTRY BREWING

Brew house:

- Good malt quality
- Normal/good brewhouse yield and wort collecting time.
- Good mashing performance and wort collecting time

Fermentation and filtration:

- Normal/good yeast sedimentation
- Normal fermentation time, end-fermentation and beer-filtration performance

Packaged beer:

- Normal Foam Stability and normal/good Flavor

RECOMMENDATION

KWS Thalís is an average yielding malting barley variety, with average grading and agronomic performance. Malt from KWS Thalís showed average to high extract levels, with good Friability and an otherwise average or better performance. KWS Thalís is a Null-LOX1G variety.

VARIETY NAME: NOS Gambit

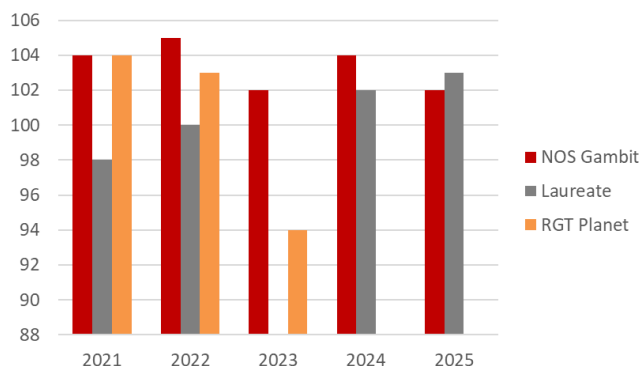


GENERAL INFORMATION

Variety: NOS Gambit
 Type: Two row spring malting barley
 Breeder: Nordic Seed A/S
 Representative: Nordic Seed A/S
 Distributer: Danish Agro
 Pedigree: Laureate x LG Nabuco
 Status: 1.655 ha multiplication in DK in 2025
 Geography: GB, DK, NL, FI, PL,

AGRONOMY

Data from Danish Official and National trials
 Relative yield index



Data from Danish National Trials 2021-2025	Laureate/Planet	NOS Gambit
Relative yield %	101	103
Protein %	10,3	10,6
Grading >2,5mm %	96,1	96,2
Grading >2,8mm %	86,3	86,8
Specific weight (hl/kg)	66,6	65,7
Maturity	29/7	30/7
Straw length (cm)	67,4	62,6
Lodging (0-10, 1 is best)	0,00	0,04
Mildew (% coverage)	0	0
Barley rust (% coverage)	11,7	11,0
Scald (% coverage)	3,5	1,7
Net blotch (% coverage)	6,9	0,0

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VLB MICRO MALTING

Stress test crop 2021 at 41%, 43% and 45% steeping degree. Tested variety is compared to the two largest malting barley varieties in Denmark for crop 2021.

Index Result	Laureate_45	Laureate_43	Laureate_41	RGT Planet_45	RGT Planet_43	RGT Planet_41	NOS 114.299-14_45	NOS 114.299-14_43	NOS 114.299-14_41
Extract	1	1	3	3	4	4	2	2	4
Friability	3	3	5	1	2	4	1	2	5
Beta-Glucan	2	3	5	1	2	3	1	3	4
Viscosity	2	3	4	1	2	4	2	3	5
FAN	2	4	5	1	3	4	1	3	4
Soluble N	1	3	4	1	2	3	1	2	3
Kolback	1	2	4	1	2	3	1	2	4
FAN dev.*	6%	-1%	4%	7%	-4%	1%	13%	8%	6%
Soluble N dev.*	1%	3%	4%	1%	2%	3%	1%	2%	3%
Kolback dev.*	1%	2%	4%	1%	2%	3%	1%	2%	4%
Proteolyse compared to modification	5% higher			2% higher			6% higher		
Alpha-Amylase	3	4	4	2	3	4	2	4	4
Beta-Amylase	4	4	4	2	2	3	5	5	5
Limit Dextrinase	3	3	3	2	2	3	2	3	4
Attenuation	2	3	3	2	3	5	3	4	3
Turbidity	1	1	1	3	2	3	1	1	1
Index **	10	12	18	12	16	21	12	15	20
Index mean ***	25			31			29		

Positive:

- Good levels of FAN and Soluble N
- Excellent Turbidity at all steeping degrees

Negative:

- Very low level of Beta-Amylase
- Somewhat lower Final Attenuation seen at 45 and 43 steeping degree

RECOMMENDATION

NOS Gambit is a high yielding malting barley variety, with average grading and good agronomic features. NOS Gambit showed high malt extract values in all malted lots, high Alpha-Amylase activity, good friability and very low haze in wort. Malting plants need to be aware of low Beta-Amylase activity when malting NOS Gambit.

INDUSTRY MALTING

Comments to malted barley lots:

- Healthy and nice color, one lot with a tendency to brownish color
- Good Germination Energy
- Average to good Grading >2,8 mm
- Low level of skinned grains

Malt results - Positive:

- Low Beta-Glucan levels in wort
- Above average Friability
- Very low Haze in wort
- Very good Alpha-Amylase activity

Malt results - Negative:

- Below average Beta-Amylase activity confirming the seen tendencies from micro malting

INDUSTRY BREWING

Brew house:

- Normal to good brewhouse yield seen
- Normal mashing performance and good wort collecting time

Fermentation and filtration:

- Normal to good fermentation time, yeast sedimentation and beer-filtration performance
- Good end-fermentation level

Packaged beer:

- Normal to good Flavor and normal Foam Stability