



# LG Allegro – Danish preferred 25/2-2025

Lars Bonde Eriksen

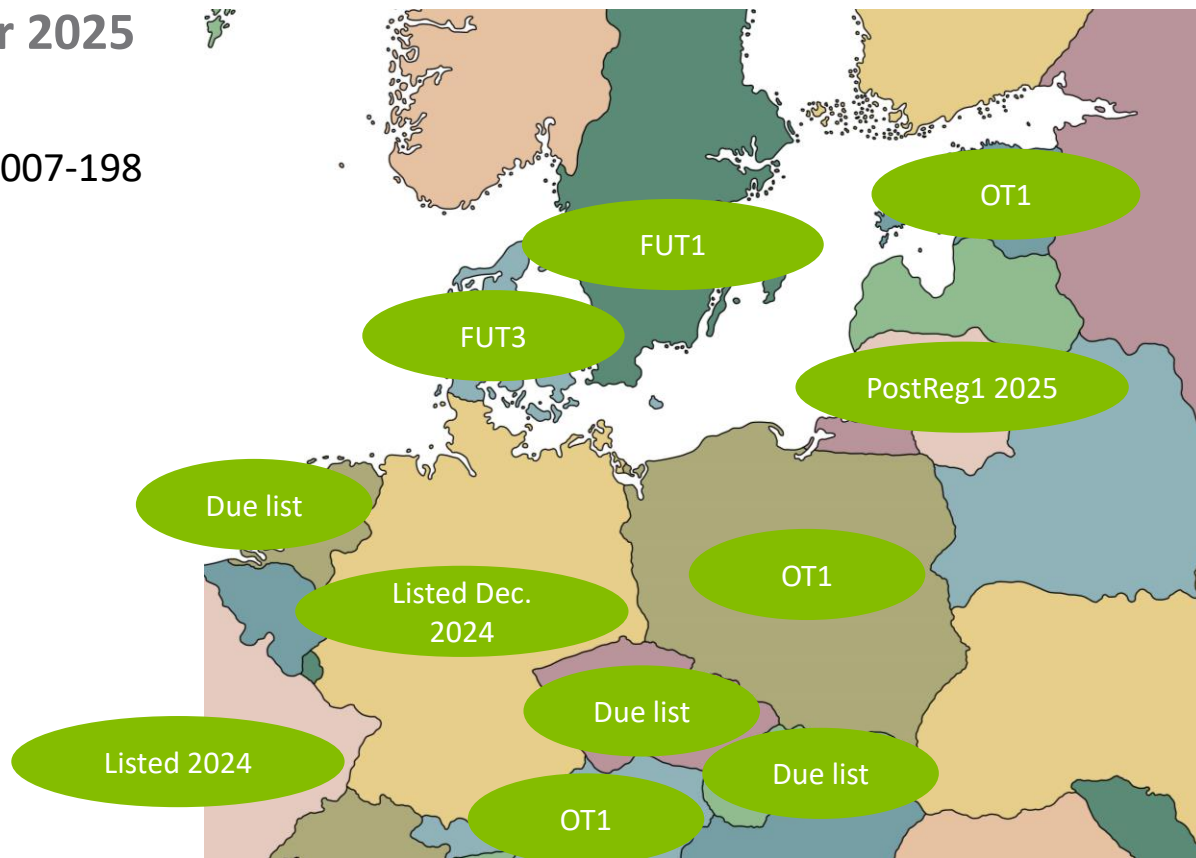


# LG Allegro (LGBN17232-18)

Status harvest year 2025



- Pedigree: LG ANDANTE x S15007-198
- National list in DE and FR
- CBMO: industry test





# Agronomic data, FUT 2024 Denmark

FUT, 2024	REL. Yield	Fungi. treatment, hkg/ha	Protein, pct.	Spec. weight, kg / hl	Grading >2,5mm, %	Grading >2,8mm, %	Untreated obs. Plot						
							Straw, cm	Score, 0-10		Disease cov., %			
								Necking	Brackling	leaf rust	scald	net blotch	ramularia
<b>LG Allegro</b>	<b>106</b>	<b>7.4</b>	<b>10.9</b>	<b>65.0</b>	<b>95</b>	<b>82</b>	<b>60</b>	<b>1.0</b>	<b>1.0</b>	<b>0.3</b>	<b>1.1</b>	<b>0.8</b>	<b>13.0</b>
Laureate	102	13.4	10.6	62.3	92	73	65	3.0	3.4	5.0	1.0	0.0	8.0
Prospect	96	15.8	10.8	63.1	87	61	63	2.5	2.4	13	0.1	1.0	12

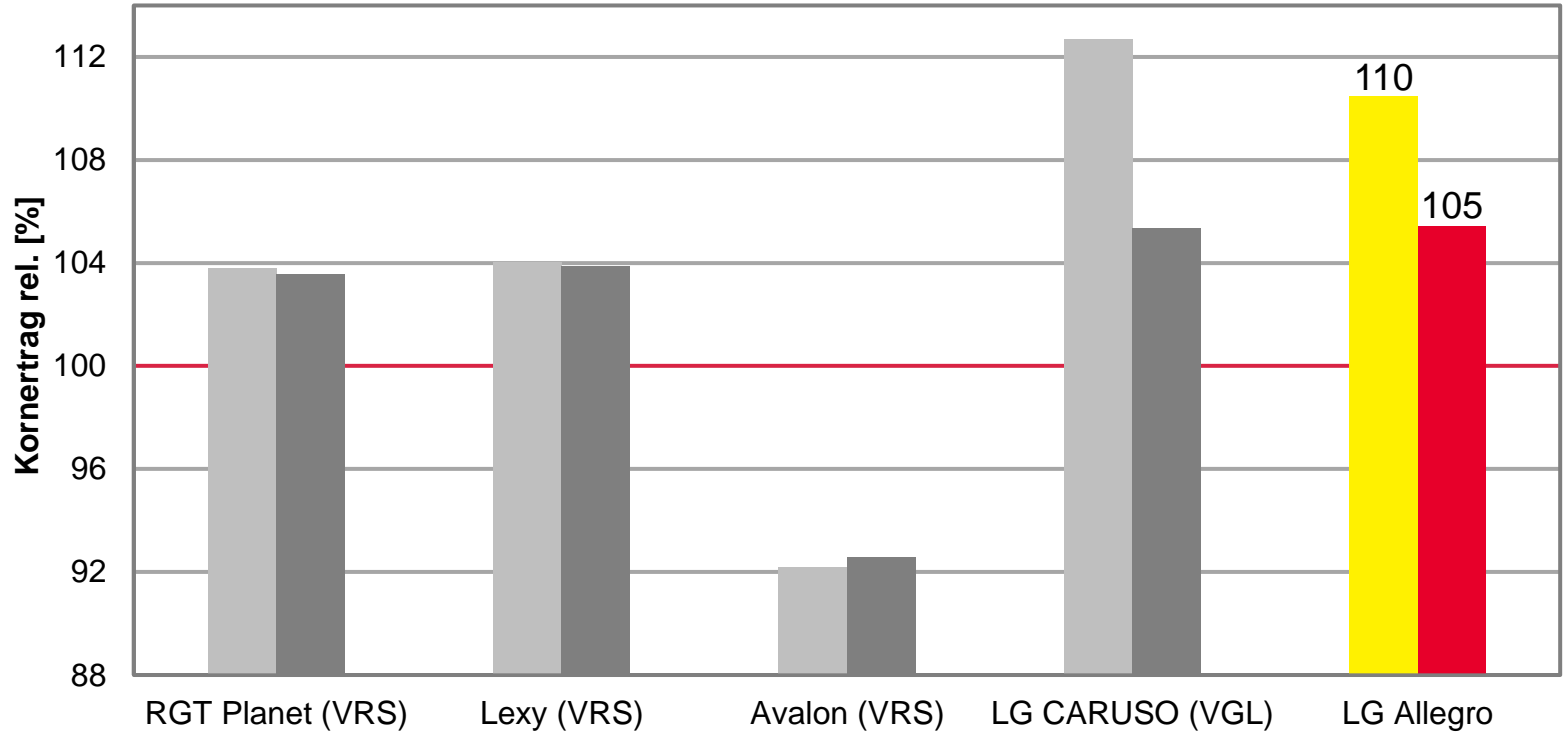
[www.sortinfo.dk](http://www.sortinfo.dk)



# LG Sommerbraugerste - Ertragsergebnisse

Wertprüfung Mittel 2022-2024

■ Kornertrag St. 1  
■ Kornertrag St. 2



Ø 100 VRS = 55,0 [dt/ha] Kornertrag  
St. 1 (n=41)  
Ø 100 VRS = 61,0 [dt/ha] Kornertrag

Quelle: Bundessortenamt, WP-Berichte S1 2022, S2 2023  
und S3 2024,  
LG-Sorten im Vergleich zu den VRS und VGL-Sorten,



# Agronomic data, BSA Germany

		Laureate	Prospect	LG Allegro
Heading		6	6	5
Maturity		6	5	6
Plant height		3	3	3
Tendency to	Lodging	5	4	3
	Brackling	4	3	3
	Necking	4	4	3
Susceptibility for	Mildew	2	2	2
	Leaf spot	4	4	4
	Scald	4	4	4
	Ramularia	5	5	5
	Leaf rust	4	4	3
Yield comp.	Density	7	7	7
	Grain / ear	4	6	6
	TGW	7	5	6



# France – malting barley 2024

Arvalis

Préc. épiaison	Avis Malterie	VARIETES	Rendement à 15% traité fongicide		REGULARITE - Rendement à 15% validé				
			q/ha	% MG.	moyenne et écart-type en q/ha				
			65	70	75	80	85		
5	Val	<b>LG ALLEGRO</b>	<b>79,9</b>	<b>110%</b>					
5.5	Obs 1	Magnitude	74.7	104					
5.5	Préf*	Sting	74.3	103					
5.5	Val	Timber*	73.5	102					
5.5	Val	Buzzer	73.2	101					
4.5	Préf	Laureate	73.0	101					
5.5	Obs 2	LG Rhapsody	70.7	98					
5	Préf*	Lexy	70.2	97					
5	Préf	KWS Fantex	70.0	97					
5.5	Préf	RGT Planet	69.8	97					
5	Obs 2	LG Flamenco	69.6	96					
6	Préf	KWS Thalys	67.3	93					
Moy. Générale			72.2		Le trait vertical représente la moyenne générale.				
ETR			2.8		La longueur des barres illustre la régularité de la variété par rapport à l'ensemble des variétés testées, elle est égale à 2 écarts-types.				
Nombre d'essais			8						

\* : données estimées dans un ou plusieurs lieux



# Conclusions

## Agronomy

- High yield, wide adaptation
- Good grain quality
- Short and stiff straw
  - low tendency to lodging
  - Low tendency brackling and necking
- Strong resistance package:
  - Low yield response to fungicide
  - Very good resistance to leaf rust
  - MLO mildew resistance
  - Resistance to nematode race 1+2



# Bundessortenamt micro-malting

VCU 2022-24

	Avalon	Lexy	RGT Planet	LG Allegro	BSA note		
					Laureate	Prospect	LG Allegro
Extract, % dm	82,0	82,8	82,8	<b>83,3</b>	7	7	<b>8</b>
$\alpha$ -amylase, DU/g dm	68	60	53	<b>53</b>	5	5	<b>5</b>
$\beta$ -amylase, BU/g dm	1026	811	856	<b>860</b>	6	5	<b>6</b>
Wort color	3,7	4,3	4,0	<b>4,1</b>			
Protein, %	10,1	9,2	9,3	<b>9,3</b>			
Soluble N mg/100 g dm	682	662	645	<b>673</b>			
Kolbach index, %	43	46	44	<b>46</b>	6	6	<b>8</b>
FAN, mg/100 g dm	126	130	123	<b>131</b>	6	6	<b>7</b>
Friabilimeter, %	96	99	94	<b>97</b>	5	6	<b>8</b>
Viscosity, mPa	1,47	1,44	1,49	<b>1,44</b>	4	4	<b>2</b>
Beta-glucan, mg/l	129	104	223	<b>115</b>	7	5	<b>3</b>





## Micro malting – harvest years 2022 and 2023 (7 trials in total)

	RGT Planet	LG Allegro
Extract, % dm	82,9	<b>83,1</b>
DP, WK m.s.	330	<b>356</b>
Wort colour	3,7	<b>3,5</b>
Protein, % dm	10,2	<b>10,3</b>
Soluble protein % dm	4,15	<b>4,44</b>
Kolbach index, %	40	<b>44</b>
Friabilimeter, %	82	<b>92</b>
Viscosity, mPa	1,59	<b>1,48</b>
Beta-glucan, mg/l	396	<b>115</b>
Insuf. deseg., %	6,7	<b>2,2</b>



# CBMO

## Industry test on harvest 2025

30 janvier 2025



### HOMOLOGATION DES NOUVELLES VARIETES D'ORGES DE BRASSERIE *APPROVAL OF NEW MALTING BARLEY VARIETIES*

Lors du Comité Bière Malt Orge du 30 janvier 2025, les décisions suivantes ont été prises :

*During the Barley Malt Beer Committee of January 30th, 2025 the following decisions were made:*

- Les variétés à 2 rangs de printemps, LG ALLEGRO, TIMBER et BUZZER passent en observation commerciale après avoir satisfait les tests pilotes de la validation technologique.
- *The 2 row Spring varieties LG ALLEGRO, TIMBER et BUZZER are promoted in commercial observation after satisfying the pilot testing for technological validation.*



# Tystofte micro-malting 2023 and 2024

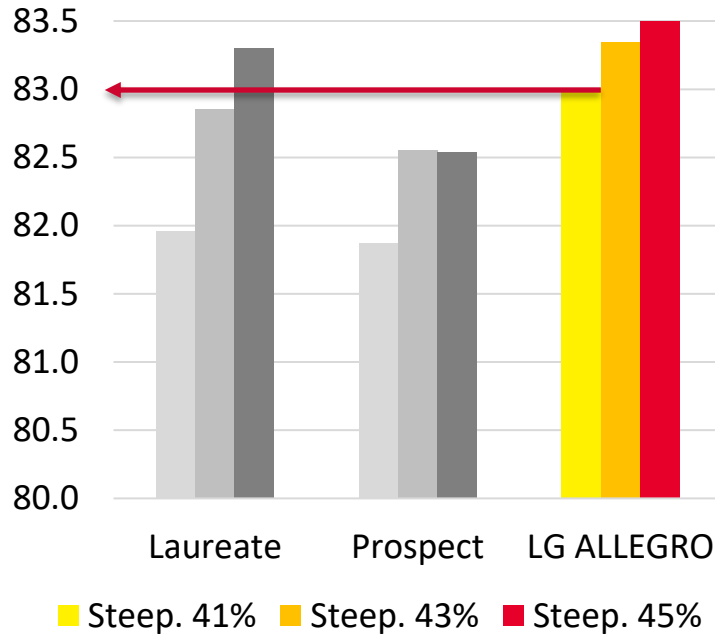
	Average 2 locations 2023		Average 3 locations 2024		
	Prospect	LG Allegro	Laureate	Prospect	LG Allegro
Extract, % dm	81,4	<b>80,8</b>	82,9	82,4	<b>83,3</b>
Attenuation, %	83,7	<b>83,3</b>	84,5	83,8	<b>83,2</b>
$\alpha$ -amylase, DU/g	49	<b>47</b>	48	44	<b>45</b>
$\beta$ -amylase, BU/g	1.048	<b>953</b>	843	837	<b>907</b>
Protein, %	11,6	<b>11,7</b>	9,1	9,3	<b>9,4</b>
Sol. N mg/100 g	781	<b>810</b>	710	754	<b>770</b>
Kolbach index, %	42	<b>43</b>	49	51	<b>51</b>
FAN, mg/100 g	147	<b>141</b>	146	152	<b>157</b>
Friability, %	83	<b>85</b>	94	92	<b>96</b>
Viscosity, mPa	1,49	<b>1,45</b>	1,44	1,44	<b>1,43</b>
Beta-glucan, mg/l	267	<b>168</b>	129	98	<b>83</b>



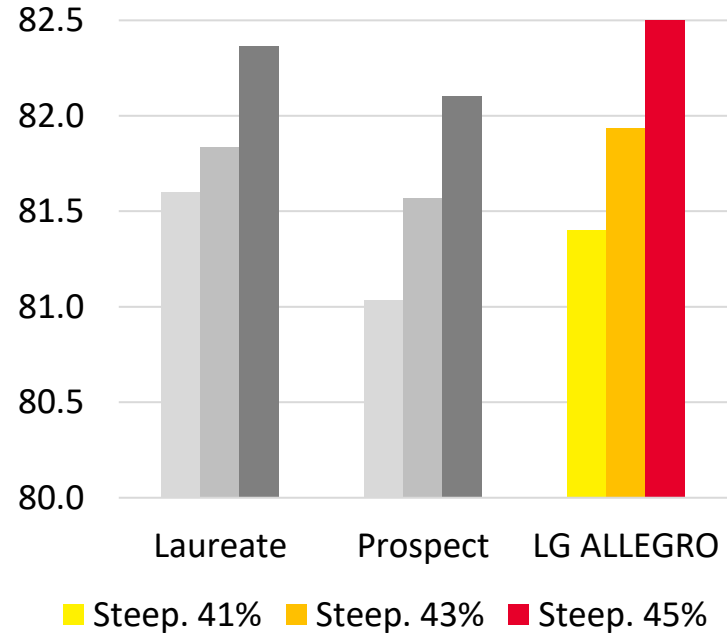
# Danish preferred

## Stress test 2024

Extract % dm



Lim. attenuation, %

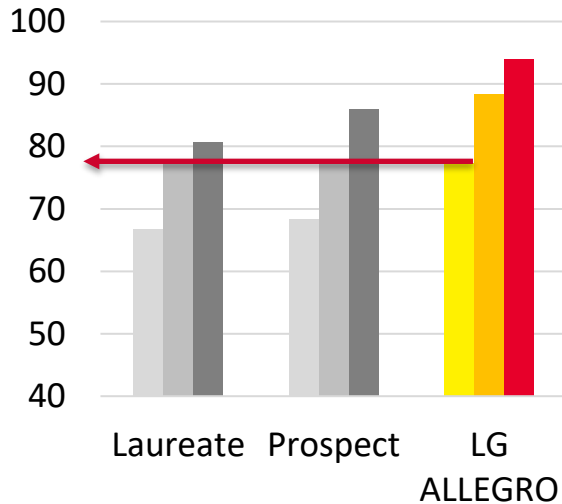




# Danish preferred

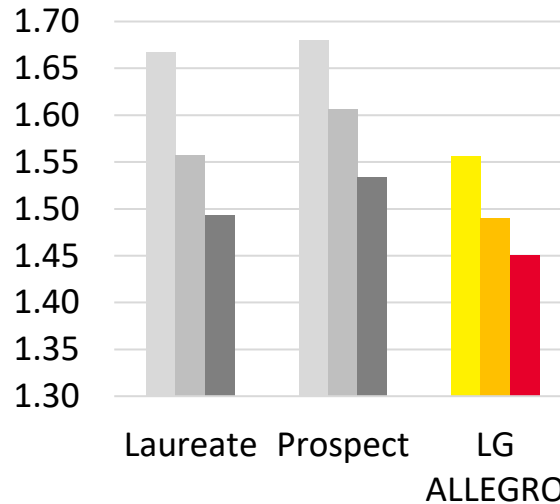
## Stress test 2024

### Friability, %



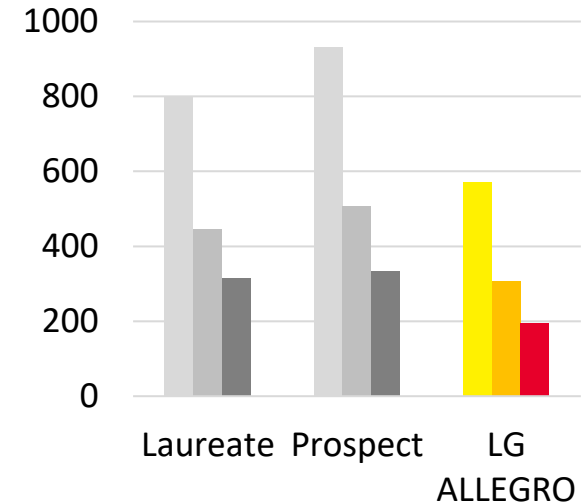
■ Steep. 41% ■ Steep. 43%  
■ Steep. 45%

### Viscosity



■ Steep. 41% ■ Steep. 43%  
■ Steep. 45%

### Beta-glucan, mg/l

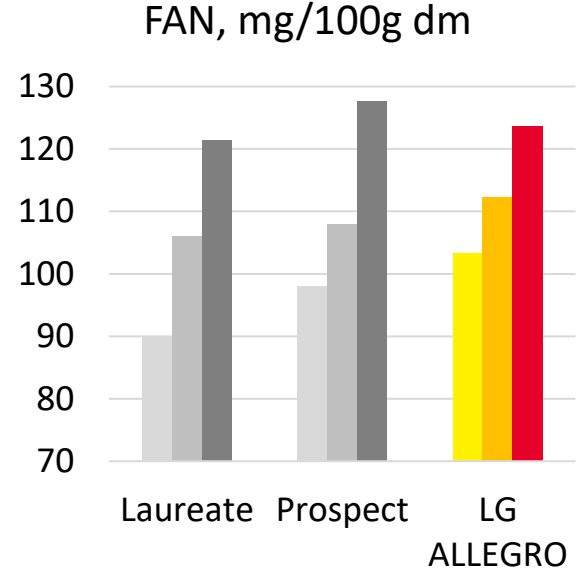
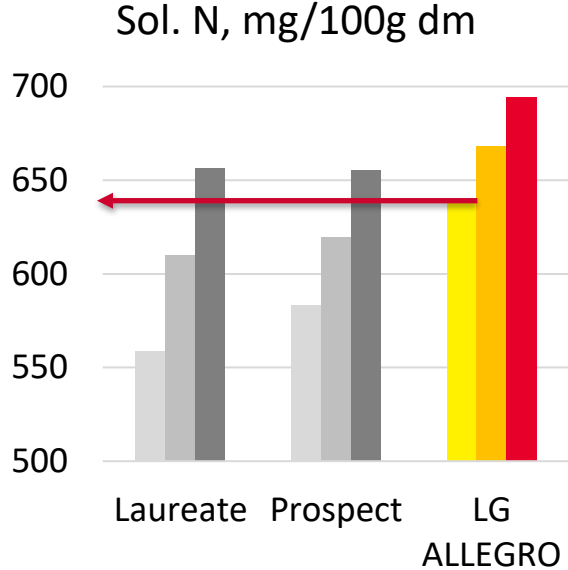
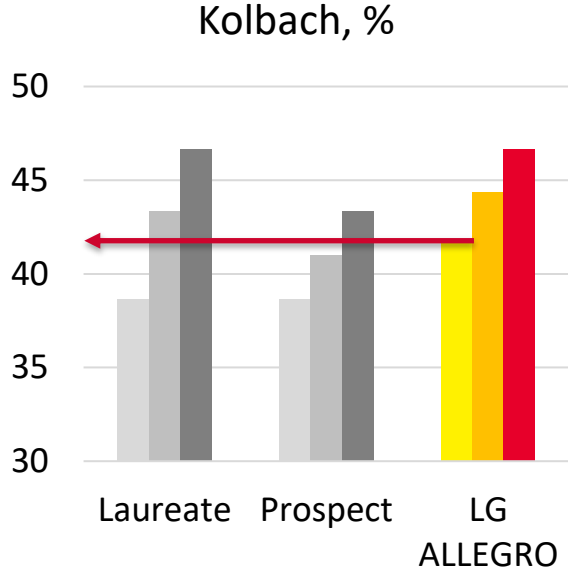


■ Steep. 41% ■ Steep. 43%  
■ Steep. 45%



# Danish preferred

## Stress test 2024



■ Steep. 41% ■ Steep. 43%

■ Steep. 45%

■ Steep. 41% ■ Steep. 43%

■ Steep. 45%

■ Steep. 41% ■ Steep. 43%

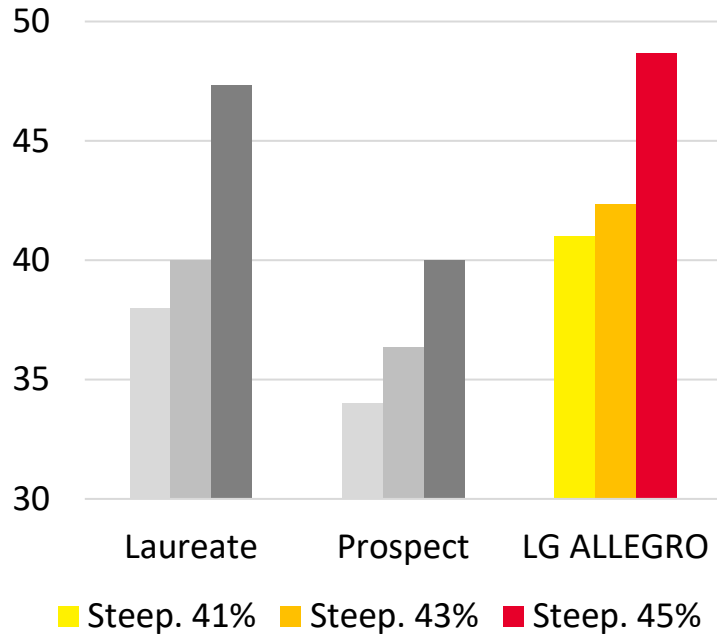
■ Steep. 45%



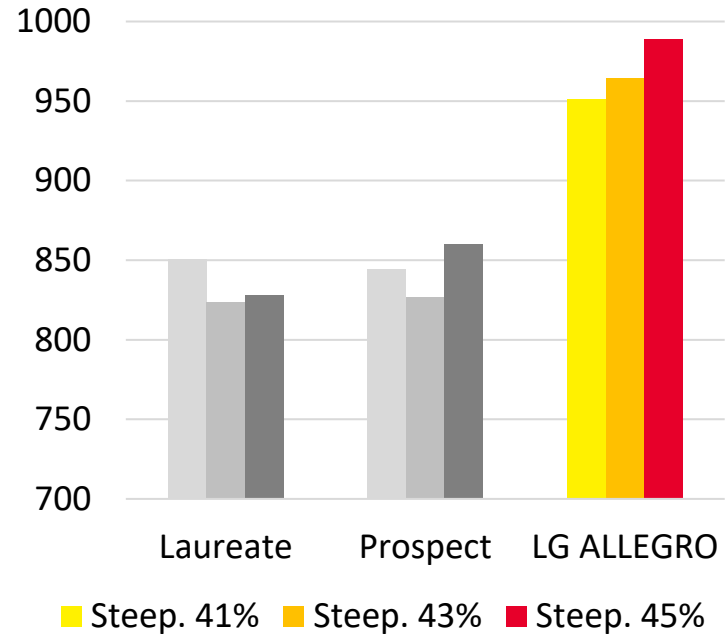
# Danish preferred

## Stress test 2024

### Alpha-amylase, DU/g dm



### Beta-Amylase, DU/g dm





# Danish preferred

## Summary LG Allegro

- High extract and attenuation
- Good degree of modification
  - Very good at low steeping degree
  - High friability
  - Low viscosity / beta-glucan
- Balanced proteolysis
  - Also at lower steeping degree
  - High level of soluble N
- High alpha and beta-amylase
- Low gel. temperature (64,4°C)
- Total index significantly better than control varieties

Index Result	LAUREATE_41	LAUREATE_43	LAUREATE_45
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PROSPECT_41	PROSPECT_43	PROSPECT_45
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LG ALLEGRO_41	LG ALLEGRO_43	LG ALLEGRO_45
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Extract	5	3	2
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5	4	4
---	---	---

2	1	1
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Friability	5	3	3
Beta-Glucan	4	2	1
Viscosity	4	2	1

4	3	2
5	2	1
4	3	2

3	2	1
3	1	1
2	1	1

FAN	5	3	1
Soluble N	5	3	2
Kolback	4	2	1

4	3	1
4	3	2
4	3	2

3	2	1
2	1	1
3	2	1

FAN dev.*	-2%	-4%	4%
Soluble N dev.*	-1%	-2%	2%
Kolback dev.*	0%	0%	4%
Proteolyse compared to modification	As expected		

16%	1%	10%
7%	1%	2%
5%	-3%	-3%
4% higher		

0%	-4%	0%
6%	3%	4%
0%	-2%	0%
1% higher		

Alpha-Amylase	4	3	2
Beta-Amylase	3	3	3
Limit Dextrinase	3	3	3
Attenuation	4	4	3

5	4	3
3	3	3
5	3	3
5	4	3

3	3	1
1	1	1
4	4	3
4	3	3

Turbidity	1	1	2
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1	1	1
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1	1	1
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Index **	22	16	12
Index mean ***	31		

24	18	16
37		

14	9	8
20		





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