

# **DANISH PREFERRED – NOS 115.043-19 "NOS LOLLIPOP"**

Jens Due Jensen – Head of barley breeding

06-03-2023

*Cultivating Value*

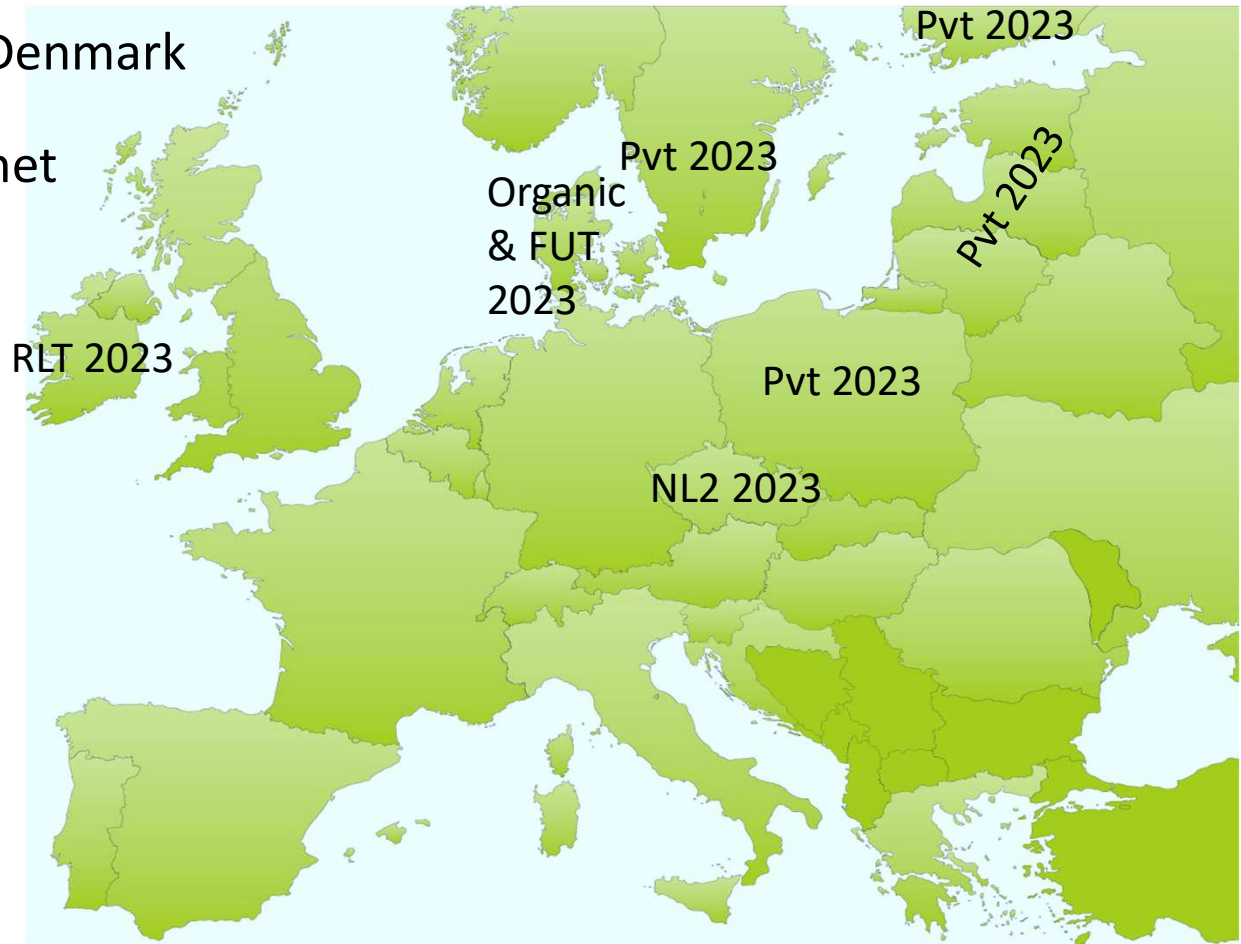
**Nordic Seed** 

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# **NOS 115.043-19 – "NOS LOLLIPOP"**

# NOS 115.043-19 – "NOS LOLLIPOP"

- Breeder: Nordic Seed A/S - Denmark
- Pedigree: Laureate\*RGT Planet
- Listed in:
  - Denmark 2022



# NOS 115.043-19 – "NOS LOLLIPOP" NL/FUT DK 2020-2021

## Agronomy - Results from the Danish National Trials and Official Trials, 2021-2022

Variety	Relative yield in the Danish National Trials			Respons on fungicide (hkg/ha)	Kernel quality				Disease resistance					Earliness and straw characters					Nematodes		
	Mean 2021+2022	Yield			Raw protein (%)	Grading > 2,5 mm (%)	Grading > 2,8 mm (%)	Hectolitre weight (kg/hl)	Milddew (%)	Barley rust (%)	Rhynchosporium (%)	Net blotch (%)	Ramularia (%)	Maturity (date)	Straw length (cm)	Lodging, FUT (kar. 0 - 10)	Lodging, OBS (kar. 0 - 10)	ear breaking (kar. 0 - 10)			straw breaking (kar. 0 - 10)
	Mean	2022	2021	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	2022	I	II
Blanding	100	100	100	5,2	9,8	95	83	68,8	0	24	1	1,2	13	31-jul	69	0		2,8	2,6	-	-
Laureate	104	103	104	6,1	9,7	97	90	68	0	16	3	0,2	6	30-jul	66	0		1	0,8	S	S
RGT Planet	101	98	104	7	9,8	97	91	69,9	0	20	13	15	8	30-jul	74	0		0,8	2,2	R	R
<b>NOS 115.043-19</b>	<b>106</b>	<b>105</b>	<b>107</b>	<b>2,2</b>	<b>9,5</b>	<b>97</b>	<b>86</b>	<b>68,3</b>	<b>0</b>	<b>8</b>	<b>0,5</b>	<b>0</b>	<b>7</b>	<b>01-aug</b>	<b>74</b>	<b>0</b>		<b>2,5</b>	<b>1,8</b>	<b>R</b>	<b>R</b>

In Blue = results from Official Testing. In Black data from National Trials








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**Nordic Seed** 

## TYSTOFTE MALT TEST 2021-2022

Variety	Viscosity, mPa*s	$\beta$ -glucan, mg/l	Extract % tørstof	Protein Content	Soluble nitrogen	Kolbach Index, %	Friability, %	Limit of attenuation, %	FAN, mg/100g tørstof	$\beta$ -amylase, BU/g tørstof	$\alpha$ -amylase, DU/g tørstof
	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.	Gns.
2022	2	2	2	2	2	2	2	2	2	2	2
RGT Planet	1.46	123	83.6	8.8	700	50	98	86.0	136	1033	67
Laureate	1.44	122	84.0	8.9	684	48	98	85.1	128	852	66
NOS 115.043-19	1.44	130	84.3	9.0	663	46	97	85.3	110	971	61
2021	3	3	3	3	3	3	3	3	3	3	3
RGT Planet	1.46	81	82.3	8.9	648	46	97	86.8	126	874	50
Laureate	1.46	120	83.5	8.6	657	47	97	87.1	137	812	47
NOS 115.043-19	1.45		84.1	8.8	625	44	96	84.9	117	762	40

# NOS 115.043-19 – "NOS LOLLIPOP" INDEX RESULTS 2022

-  High extract
-  Good cytolysis
-  Proteolysis is balanced
-  High enzyme activity
-  Low Turbidity
-  Gelatinization as standards
-  Color as standards

Index Result		Laureate_45			Laureate_43			Laureate_41			RGT Planet_45			RGT Planet_43			RGT Planet_41			NOS 115.043-19_45			NOS 115.043-19_43			NOS 115.043-19_41		
Extract		3	3	4							1	3	5				1	2	3				1	2	3			
Friability		1	1	3							1	2	4				1	1	4				1	1	4			
Beta-Glucan		1	2	3							1	2	3				1	2	3				1	2	3			
Viscosity		1	1	3							1	2	4				1	2	4				1	2	4			
FAN		1	3	4							2	3	3				1	3	5				1	3	5			
Soluble N		2	3	4							1	2	3				2	3	5				2	3	5			
Kolback		2	3	4							1	2	4				1	3	5				1	3	5			
FAN dev.*		3%	-1%	1%							-1%	-2%	10%				5%	-2%	-10%				5%	-2%	-10%			
Soluble N dev.*		2%	3%	4%							1%	2%	3%				2%	3%	5%				2%	3%	5%			
Kolback dev.*		2%	3%	4%							1%	2%	4%				1%	3%	5%				1%	3%	5%			
Proteolyse compared to modification		As expected						3 % higher						2 % lower														
Alpha-Amylase		1	2	3							2	2	3				2	3	4				2	3	4			
Beta-Amylase		1	2	3							2	2	1				2	1	1				2	1	1			
Limit Dextrinase		2	3	4							3	3	3				3	2	2				3	2	2			
Attenuation		3	4	5							2	4	5				1	3	4				1	3	4			
Turbidity		1	1	2							1	1	1				1	1	1				1	1	1			
Index **		12	14	20							8	15	21				7	11	16				7	11	16			
Index mean ***		29						26						20									20					

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**THANK YOU FOR YOUR ATTENTION**

