Technical questionnaire

	160	inital questionnaire							
Spinacia o	leracea L.								
Spinach									
Version 1	8 - Publication date: 12/06/2024								
Mandatory fields or sections are marked with an asterisk (*)									
04 . Inforr	mation on the breeding scheme an	d propagation of the variety							
04.01. Typ	oe of material *								
0	O hybrid								
0	cross-pollinated variety								
0	self-pollinated variety								
0	parent line								
)4.01.01.	Parental line use *								
	ase indicate for the production of ich hybrid variety(ies) the parental								
line	is used								
*									
4.02. Me	thod of propagation of the variety	*							
0	seed propagated								
0	vegetatively propagated								
4.03. Oth	ner information on genetic origin a	nd breeding method							
Plea	ase specify								
)5 . Chara	acteristics of the variety to be indic	rated							
the numb	-	nding characteristic in the CPVO Technical Protocol; please man							
1) 05.00.	Seeds: spines (submitted seeds)*								
0	1 - absent	Butterflay, Marimba							

O 9 - present Breedblad, Scherpzaad (3) (G) 05.01. Plant: red coloration of stem, petioles and veins * 0 1 - absent Resistoflay, Nores 0 9 - present Red Cardinal, Reddy (4) (G) 05.02. Leaf blade: intensity of green colour * 1 - very light 0 2 - very light to light 0 3 - light Monet, Viroflay, Winterreuzen 0 4 - light to medium 5 - medium 0 Butterflay, Monnopa 6 - medium to dark 0 0 7 - dark Imola, Lavewa, Nores 0 8 - dark to very dark 0 9 - very dark Lorelay, Mystic (5) (G) 05.03. Leaf blade: blistering* 1 - absent or very weak Matador 0 2 - very weak to weak 0 0 3 - weak Polka, Tarpy 4 - weak to medium 0 5 - medium 0 Butterflay, Koala, Mystic 0 6 - medium to strong 0 7 - strong Giraffe, Rhythm 0 8 - strong to very strong 9 - very strong Menorca, Revolver 0 (8) 05.03.01. Petiole: length * 1 - very short 0 2 - very short to short 3 - short Imola, Mystic

Butterflay, Giraffe



4 - short to medium

5 - medium

0	6 - medium to long	
0	7 - long	Grappa, Resistoflay
0	8 - long to very long	
•	9 - very long	
(10) 05.03	.02. Leaf blade: shape (excluding bas	sal lobes)*
0	1 - triangular	Grappa, Maracas
0	2 - medium ovate	Lavewa, Resistoflay
0	3 - broad ovate	Butterflay
0	4 - medium elliptic	
0	5 - broad elliptic	Nores
0	6 - circular	Giraffe
(12) 05.04	. Leaf blade: shape of apex	
0	1 - acute	Grappa, Rhythm
0	2 - obtuse	Resistoflay
0	3 - rounded	Imola, Nores
(14) (G) 0	5.05. Proportion of monoecious plan	ts*
(14) (d) 0 .	1 - absent or very low	Please indicate percentage
	,	
0	2 - very low to low	Please indicate percentage
0	3 - low	Please indicate percentage
0	4 - low to medium	Please indicate percentage



Breeder's ref.: undefined O 5 - medium Please indicate percentage O 6 - medium to high Please indicate percentage **O** 7 - high Please indicate percentage (15)

0	8 - high to very high	Please indicate percentage
0	9 - very high	Please indicate percentage
(G) 0	5.06. Proportion of female plants *	
0	1 - absent or very low	Please indicate percentage
0	2 - very low to low	Please indicate percentage
0	3 - low	Please indicate percentage
0	4 - low to medium	Please indicate percentage
		Page



Breeder's ref.: undefined O 5 - medium Please indicate percentage 6 - medium to high Please indicate percentage 7 - high Please indicate percentage O 8 - high to very high Please indicate percentage O 9 - very high Please indicate percentage (16) (G) 05.07. Proportion of male plants*

0	1 - absent or very low	Please indicate percentage
0	2 - very low to low	Please indicate percentage

- 3 low Please indicate percentage
- 4 low to medium Please indicate percentage



Breeder's ref.: undefined O 5 - medium Please indicate percentage 6 - medium to high Please indicate percentage 7 - high Please indicate percentage 8 - high to very high Please indicate percentage O 9 - very high Please indicate percentage (17) (G) 05.08. Time of start of bolting (for spring sown crops, 15% of plants) * 0 1 - very early Please indicate comparable variety(ies) of your choice O 2 - very early to early Please indicate comparable variety(ies) of your choice O 3 - early Please indicate comparable variety(ies) of your choice



4 - early to medium

Please indicate comparable variety(ies) of your choice

Q 8 - late to very late Please indicate comparable variety(ies) of your choice

O 9 - very late Please indicate comparable variety(ies) of your choice

06 . Similar varieties and differences from these varieties

06.1. Are there any similar variety(ies) known?*

- **O** 1 yes
- **Q** 2 no

06.2. Similar varieties and differences from these varieties: *

Denomination of similar variety	Characteristic in which the similar variety is different	State of expression of similar variety	State of expression of candidate variety

- 07 . Additional information which may help to distinguish the variety
- 07.01. Resistance to pests and diseases*
- 07.01. In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety?*



Breeder's ref.: undefined							
0	Yes, specify						
0	No						
07.02. Sp€	ecial conditions for the e	xaminatio	n of the varie	ty*			
0	Yes, specify						
•	No						
07.03. Oth	ner information *						
	Variety use*						
0	only in glasshouse						
0	only in the open						
O	in the open and in glassl	house					
07.03.02. Resistance to pests and diseases * (19) 07.03.02.01. Resistance to Peronospora effusa (Pe) (ex Peronospora farinosa f. sp. Spinaciae (Pfs)) *							
(19.1) 07 Race Pe	7.03.02.01.01. : 1*	•	absent	•	present		
(19.2) 07 Race Pe	7.03.02.01.02. : 2*	•	absent	•	present		
(19.3) 07 Race Pe	7.03.02.01.03. : 3*	•	absent	•	present		
(19.4) 07 Race Pe	7.03.02.01.04. : 4*	•	absent	•	present		
(19.5) 07 Race Pe	7.03.02.01.05. : 5*	0	absent	0	present		



(19.6) 07.03.02.01.06. Race Pe: 6*	0	absent	0	present
(19.7) 07.03.02.01.07. Race Pe: 7*	•	absent	0	present
(19.8) 07.03.02.01.08. Race Pe: 8*	•	absent	0	present
(19.10) 07.03.02.01.09. Race Pe: 10*	0	absent	0	present
(19.10) 07.03.02.01.10. Race Pe: 11*	0	absent	0	present
(19.11) 07.03.02.01.11. Race Pe: 12*	0	absent	0	present
(19.12) 07.03.02.01.12. Race Pe: 13*	0	absent	0	present
(19.13) 07.03.02.01.13. Race Pe: 14*	0	absent	0	present
(19.14) 07.03.02.01.14. Race Pe: 15*	0	absent	0	present
(19.15) 07.03.02.01.15. Race Pe: 16*	0	absent	0	present



(19.16) 07.03.02.01.16. Race Pe: 17*	0	absent	0	present		
(19.17) 07.03.02.01.17. Race Pe: 18*	0	absent	0	present		
(19.18) 07.03.02.01.18. Race Pe: 19*	0	absent	0	present		
(20) 07.03.02.02. Resistance to <i>Cucumbe</i>	er ma	saic virus (CMV)*				
• absent						
Q present						
• not tested						
07.03.02.03. Other resistances to pests	and	diseases (fill nor	ne if y	you are not concerned) *		
Please indicate *						
07.03.03. Other information *						
• Yes, specify						
O No						
07.04. Photo						
It is highly recommended to provide pictures. Otherwise, the organisation of the technical examination will be rendered less efficient, with the risk of an additional year of technical examination at the costs of the applicant.						
Documents to be attached						
08 . GMO-information requested						
08.a. The variety represents a genetically modified organism (GMO) within the meaning of Article 2(2) of						
	-	_		prization for release in the environment:		
Q 1 - yes						
Q 2 - no						



08.c. If yes, please attach a copy of such an authorization*

Documents to be attached	

