Image: Animal & Plant Health Agency       Scottish Government         Plant Health Agency       Scottish Government         Agency       Department of Agriculture and Rural Development         Technical Questionnaire (FIELD PEA)         Plant Varieties Act 1997 and         The Seeds (National Lists of Varieties) Regulations 2001 (as amended)										Ref. GM Other Restri	ictio	AFP ns	Offic Y Y	es es	Jse ( <b>1</b>	Dnly ] / [ ]	No											
Plea • Tr • Tr • All • Co • Al The Tele	<ul> <li>Please note:</li> <li>The completed TQ and the application will form part of the public record for this variety</li> <li>The seed submitted for DUS in the first year will be regarded as the definitive stock</li> <li>All relative sections of this form must be completed. An incomplete form may result in a delay in processing the application</li> <li>Completed forms should be e-mailed to <u>NLPBR-Applications@apha.gsi.gov.uk</u></li> <li>Alternatively forms may be sent to:</li> <li>The Animal and Plant Health Agency, Eastbrook, Shaftesbury Road, Cambridge, CB2 8DR</li> <li>Telephone 0208 026 5993.</li> </ul>																											
Sec	tion 1 - A		atio	n De	tail	s				T		مامیم	., n	: er le 4	ار ما		·  [		1		De		4-1	1:	- /F			٦
(a) (b)	Nationa		ing	(NL)	L			<b>.</b>	Pla		sree	aers	5' R	ign	(IS (I	РВК	()				Pa	iren	itai	LIN	e (F	'L)		
(d)	Species	s: Laur	n nai	me nel c	1	-isu		ativ	um	L.																		
(d)	Please	n nan nive de	itaile	of an	nlic	ation		hea	vm	ada	or to	ho n	her	o in a	anv	othe	or c		ripe									
(u)	Country	/	allo		Da	te	15 all	eau	App	lica	tion	No.	N		PE	BR		arie	ty na	ame	e or	Bre	ede	ers'	refe	erer	nce	
																			2									
(-)			e				0			DI				2:1-	L- /F			) I		1	- 0		,	/	Г	1	N	
(e)	Has an a	applica	tion	for E	urop	bean	1 Cor	nmu	inity	Plai	nt Br	eede	rs' F	Right	ts (E	CPI:	BK	) be	en m	nade	e?		Y	es			NO	
						11 '	Yes'	, Pl€	ease	e sta	ate c	late	ot a	ippli	cati	on												
Sect	tion 2 – /		ant	deta	ils anli	oont	for																					
(a)	<ul> <li>National</li> </ul>	ional L	istir	ng:	ppin		101																					
				-																								
	-																											
	<ul> <li>Plai (if d</li> </ul>	nt Bree ifferer	eder ht)	's' Ri	ght	s																						
	(11 G		,																									
	Name a	nd add	dress	6		Γ																						
	of breed	der:																										
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	correspo	ndenc	ness æ:																									
	Is the ac	ldress	for:	_																								
	• serv	/ice		C	or																							
	• age	nt																										
An a	gent is au	thorise	ed to	act fo	or th	ne ap	oplica	ant c	on al	las	pects	s of a	n a	pplic	atio	n, in	clu	ding	inst	ruc	tions	s to	with	Idrav	<i>n</i> ap	pli	catio	ons,
dele	te from a	Natio	nal l	_ist o	or su	urre	nder	Pla	nt B	sree	ders	' Rig	ghts	5														
Sect	tion 3 - V	ariety	dei	nomi	ina	tion	• • • =	ict	de-	o	oot!-	-																
(a)	vvnere a	appropi	late	prop	usa	i ior I	a vai	iety	uen	umi	iatio	(1)				1	T		٦									
(b)	Provisio	onal de	esigr	natio	n (b	ree	der's	s na	me/	refe	rend	e)							_									

Sect 4.1	tion 4 - Information on origin, maintenance and reproduction of the variety Do you wish the details and data relating to components of hybrid varieties including data related to their cultivation to be treated as confidential? Yes If 'yes', please give this information on the separate form for confidential information. If 'no', please give information on data relating to the components of hybrid varieties including d their cultivation. Breeding scheme (indicate female component first)	No no
<b>4.2</b>	Origin	
(a)		
(b)	Mutation (indicate parent variety)	
(C)	Discovery (indicate where, when and how the variety has been developed)	
(d)	Other (please specify)	
43	Method of propagation	
(a)	Cuttings	
(b)	In vitro propagation	
(C)	Seed	
(d)	Other (please specify)	
4.4	Other information In the case of seed propagated varieties: method of production:	
(a)	Self-pollinated	
(b)	Cross-pollinated (please give details)	
(C)	Hybrid (please give details)	
4.5	Geographical origin of the variety: the region and the country in which the variety was bred o and developed	r discovered
Sect	tion 5 – Characteristics of the variety to be indicated (the number in brackets refers to the corres	oonding
char 5.1	acteristic in the CPVO Protocol; please mark the state of expression which best corresponds). Type:	
	Grain Silage Grain a	and silage
	White Small blue L	arge blue
	Maple	/larrow fat

	Characteristic	Example varieties	Note
5.2 (1)	Plant: anthocyanin colouration		
.,	Absent	Avola, Solara	1
	Present	Pidgin, Rosakrone	9
5.3 (4)	Stem: length		
( )	Very short	Zephir	1
	Short	Nobel, Mini	3
	Medium	Calibra, Xantos	5
	Long	Blauwschokker, Livia	7
	Very long	Mammoth Melting Sugar	9
5.4 (5)	Stem: number of nodes up to and	including first fertile node	
( )	Very few	Kelvil	1
	Few	Smart, Zero4	3
	Medium	Markana, Susan	5
	Many	Cooper	7
	Very many	Regina	9
5.5 (6)	Foliage: colour		
.,	Yellow green	Pilot	1
	Green	Avola, Paris, Progreta, Waverex	2
	Blue green	Polar	3
5.6 (8)	Leaf: leaflets		
.,	Absent	Hawk, Solara	1
	Present	Avola, Rhea	9
5.7 (19)	Stipule: flecking		
. ,	Absent	Lisa, Tafila	1
	Present	Avola, Maro	9
5.8 (23)	Time of flowering		
()	Very early	Tempo	1
	Early	Smart, Zero4	3
	Medium	Carlton, Waverex	5
	Late	Cooper, Purser	7
	Very late	Livioletta	9

	Characteristic	Example varieties	Note
ว.9 (24)	Univ varieties with stem fasciation ab	isent: Plant: maximum number of flowers	per noae
-	One	Progress N°9, Tyla	1
	Тwo	Banff, Cooper	3
	Three	Ultimo, Zodiac	5
	Four or more	Arnesa, Calibra, Survivor	7
5.10	Only varieties with plant anthocyanin	colouration present: Flower: colour of wi	ng
(23)	White with pink blush		1
	Pink	Rosakrona	2
	Reddish purple	Assas	3
5.11 (28)	Flower: shape of base of standard		
(20)	Strongly raised		1
	Moderately raised	Progreta	3
	Level	Markado, Solara	5
	Moderately arched	Avola, Cooper	7
	Strongly arched	Bohatyr, Kennedy	9
5.12	Pod: length		
(35)	Very short	Cepia, Vermio	1
	Short	Progreta, Solara	3
	Medium	Copper, Jof	5
	Long	Hurst Green Shaft, Protor	7
	Very long	Tirabeque	9
5.13	Pod: width		
(30)	Very narrow	Claire	1
	Narrow	Picar, Ultimo	3
	Medium	Progreta, Solara	5
	Broad	Finale, Kahuna	7
	Very broad	Kennedy	9
5.14 (37)	Pod: parchment		
(**)	Absent or partial	Sugar Ann	1
	Entire	Avola, Solara	2

	Characteristic	Example varieties	Note
5.15	Excluding varieties with pod parch	hment: entire: Pod: thickened wall	
(38)	Absent	Nofila, Reuzensuiker	1
	Present	Cygnet, Sugar Ann	9
5.16	Only varieties with pod thickened	wall: absent: Pod: shape of distal part	
(39)			
	Pointed	Jof, Oskar	1
	Blunt	Avola, Solara	2
5.17 (41)	Pod: colour		
	Yellow		1
	Green	Avola, Solara	2
	Blue green	Show Perfection	3
	Purple	Blauwschokker	4
5.18	Excluding varieties with pod parch	hment: entire: Pod: suture strings	
(43)	Absent	Nofila, Sugar Lacer	1
	Present	Crispi, Reuzensuiker	9
5.19	Pod: number of ovules		
(44)	Few	De Grace, Phoenix	3
	Medium	Backgammon, Hawk	5
	Many	Karisma	7
5.20	Immature seed: intensity of green	colour	
(43)	Light	Arabelle, Solara, Ultimo	3
	Medium		5
	Dark	Dark Skin Perfection, Hawaï	7
5.21 (47)	Seed: type of starch grains		
. /	Simple	Adagio, Maro, Solara	1
	Compound	Avola, Polar	2
5.22 (50)	Seed: colour of cotyledon		
(00)	Green	Avola, Solara	1
	Yellow	Caractacus, Hardy	2
	Orange		3
5.23	Only varieties with plant anthocya	nin colouration: present: Seed: marblir	ng of testa
(51)	Absent	Rhea, Rif	1
	Present	Assas, Pidgin	9

	Ohenneterietie	Francis		Nata	
5.24	Only varieties with plant	anthocvanin colouration:	varieties present: Seed: violet or pi	nk spots on testa	
(52)			<u></u>		
	Absent	Pidgi	n, Rif	1	
	Faint	Assas,	Susan	2	
	Intense	Arvika	, Rhea	3	
5.25 (53)	Seed: hilum				
(00)	Same colour as testa	Avola,	Solara	1	
	Darker than testa	Nofila	a, Rif	2	
5.26	Seed: weight				
(55)	Verylow	I 11 <del>1</del>	imo	1	
	Low	Hawk,	Iceberg	3	
	Medium	Mammoth Melting	g Sugar, Phoenix	5	
	High	Kennedy, Maro			
	Very high	9			
Sect	ion 6 – Similar varieties a	nd differences from these	varieties:	Otata of average in a f	
	Similar variety	candidate variety			
	1				
Sect	In the case of identical st	ates of expression of both va	arieties, please indicate the	size of the difference.	
7.1	Resistance to pests and	diseases	stinguish the variety		
			Resistant Susc	eptible Not tested	
	Fusarium Wilt (Race 1) (C	ommon Wilt)			
	Fusarium Wilt (Race 5) (C	ommon Wilt)			
	Fusarium Wilt (Race 6) (C	ommon Wilt)			
	Erysiphe pisi Syd. – Powd	ery mildew			
	Ascochyta pisi Race C (lea	af and pod spot)			
i	Other Resistances (please	e specify)			
	One with the second				
1.2					
	Dwart				
	Non-dwarf				

7.3	Special conditions for the examin	ation of the variety						
	Yes, please specify							
	No							
	If it is agreed to carry out a special I	OUS test an appropriate c	harge will be lev	vied				
7.4	Use							
	Fresh market							
	Canning							
	Freezing							
	Dry seed for human consumption							
	bry seed for human consumption							
	Dry Protein							
	Forage							
	Other (please specify)							
7.5	Other information							
	Yes, please specify							
	No							
Sect	tion 8 - GMO and other Novel types Does this application relate to a Ger	netically Modified Organis	m as defined in	Section 106 of the				
	Environmental Protection Act 1990?		Yes	No No				
	If "Yes" you must complete form PV	S9/B Genetically Modified	and other Nov	el Candidates.				
Sect	tion 9 - Information on plant materia	al to be examined						
9.1	The expression of a characteristic o	r several characteristics c	f a variety may	be affected by factors, such as				
9.2	The plant material should not have u	undergone any treatment	which would aff	ect the expression of the				
	characteristics of the variety, unless	the competent authorities	s allow or reque	st such treatment. If the plant				
	indicate below, to the best of your ki	nent, full details of the treat nowledge, if the plant mat	erial to be exam	nined has been subjected to:				
	(a) Micro-organisms (eq virus, bacte	eria, phytoplasma)	Yes	No				
	(b) Chamical tractment (as growth a	eterdent er nestiside)						
	(b) Chemical treatment (ed drowth r	etardant or pesticide)	res					
	(c) Tissue culture		Yes	No				
	<ul><li>(c) Tissue culture</li><li>(d) Other factors</li></ul>		Yes	No No				
	<ul> <li>(c) Tissue culture</li> <li>(d) Other factors</li> <li>Please provide details of where you</li> </ul>	have indicated "Yes"	Yes Yes	No				
	<ul> <li>(c) Tissue culture</li> <li>(d) Other factors</li> <li>Please provide details of where you</li> </ul>	have indicated "Yes"	Yes Yes	No				
	<ul> <li>(c) Tissue culture</li> <li>(d) Other factors</li> <li>Please provide details of where you</li> </ul>	have indicated "Yes"	Yes	No No				
	(c) Tissue culture (d) Other factors Please provide details of where you	have indicated "Yes"	Yes	No				
	<ul> <li>(c) Tissue culture</li> <li>(d) Other factors</li> <li>Please provide details of where you</li> </ul>	have indicated "Yes"	Yes	No				

## Section 10 - Value for Cultivation and use (VCU) information (for NL purposes only)

10.1	Standard VCU ch The obligatory VCU https://www.gov.uk from the Animal and (shown in italics in th measured by ticking Do you wish any op If 'Yes' please give	aracters and agreed optional characters characters measured for all candidates are shown in bold in the VCU pro- guidance/vcu-protocols-and-procedures-for-testing-agricultural-crops, o Plant Health Agency (APHA). Agreed procedures exist for some optiona ne VCU procedures). If you wish any of these to be assessed, you must re the appropriate box – see below. Additional fees will be charged by the tional characters to be measured? details	cedures at or are availabl al characters equest that th ne trial organi Yes	le iey be iser. No					
10.2	Additional VCU cha	racters							
	Are there any non-	standard characters to be measured?	Yes	٩v					
	If <b>'Yes'</b> please provide details of the proposed test to APHA. The characteristic being tested for must have Value for Cultivation and Use. The test must be able to demonstrate whether the candidate has the characteristic and be statistically valid. The agreement of the UK National Authorities is required before special tests can be undertaken and additional fees will be charged.								
10.3	Other factors for VC Are there any other f	<b>:U assessment</b> actors that should be taken into account for the VCU assessment (e.g. suscep	otibility <u>to co</u> m	mercial					
	herbicides, special us	ses, agronomic characteristics, pest/disease resistance)?	Yes	٧o					
F	If 'Yes' please give	details							
<b>Decla</b> I/We d	aration declare that to the bes	t of my/our knowledge and belief the statements made in this Technical Quest	tionnaire are c	orrect					
Signa	ture of Applicant	Date							
		(original signature unless emailed)							
Name	e in BLOCK letters								
For a	or and on behalf of								