



APPLICATIONS UNDER EXAMINATION

PEAS

PEAS
(Pisum sativum)

Proposed denomination: 'Talento'
Application number: 07-5918
Application date: 2007/05/24
Applicant: Limagrain Nederland B.V., Lelystad, The Netherlands
Agent in Canada: Ron Weik, FarmPure Genetics Inc., Regina, Saskatchewan
Breeder: Abel Jan Bouwman, Limagrain Advanta Nederland BV, Rilland, The Netherlands

Variety used for comparison: 'Noble'

Summary: *'Talento' is taller with less nodes than 'Noble'. The margin of the leaflets of 'Talento' has a stronger degree of dentations than 'Noble'. 'Talento' has denser flecking of the stipule than 'Noble'. The pod of 'Talento' has a stronger degree of curvature than 'Noble'.*

Description:

PLANT: field type, no stem fasciation, green colour at flowering, no anthocyanin colouration, semi-leafless

STEM: long vine, no anthocyanin in axils

STIPULE: medium to strong waxiness of upper surface, strong dentation, normal development, no rabbit-eared stipules, no anthocyanin colouration, dense flecking

FLOWER: blooms mid season, medium number of flower bearing nodes per stem, two flowers per node, cream to white standard, base of standard is level, acuminate apex of upper calyx lobe, medium length peduncle

POD: thickened wall absent, weak concave curvature, distal part blunt, yellowish green when fully swollen, no anthocyanin colouration of the suture or outer wall, 6 to 7 ovules

IMMATURE SEED: light green

DRY SEED: simple starch grain, yellow cotyledon, no marbling, no spots on testa, no black hilum, spherical almost block shaped, absent or very weak wrinkling of cotyledon, no dimpling, medium size, medium maturity

Origin and Breeding: 'Talento' (experimental designation IN 4176) is the result of the cross 99016 / 99010 made in 1999 in Lelystad, The Netherlands. 99016 = Sponsor x Eclipse and 99010 = Venture x Lumina. In 2000 a single plant was selected and advanced using the single seed descent method. Selection criteria include yield, plant height, resistance to mildew and resistance to lodging. One line was bulked in the F7 generation (2005) to become 'Talento'.

Tests and Trials: Tests and trials were conducted during the summers of 2007 and 2008 in Barrhead, Alberta. Plots consisted of 4 rows with a row spacing of 15 cm and a row length of 4.5 m. There were 4 replicates.

Comparison table for 'Talento'

	'Talento'	'Noble'*
<i>Plant height (cm)</i>		
mean 2007	96.7	85.5
std. deviation	5.4	4.3
mean 2008	74.9	71.5
std. deviation	6.54	2.5

*reference variety



Peas: 'Talento' (IN4176) (right) with reference variety 'Noble' (left)



Peas: 'Talento' (IN4176) (right) with reference variety 'Noble' (left)