



## APPLICATIONS UNDER EXAMINATION

PEA

PEA  
(*Pisum sativum*)

**Proposed denomination:** 'Eldorado'  
**Application number:** 20-10100  
**Application date:** 2020/02/24  
**Applicant:** Syngenta Participations AG, Basel, Switzerland  
**Agent in Canada:** Syngenta Canada Inc., Guelph, Ontario  
**Breeder:** Syngenta Participations AG, Basel, Switzerland

**Variety used for comparison:** 'Prelado'

**Summary:** *The stem of 'Eldorado' is of medium length but longer than the stem of 'Prelado' which is also of medium length. The pod curvature is very weak to weak for 'Eldorado' while it is weak to medium for 'Prelado'. The pod of 'Eldorado' has a medium number of ovules while the pod of 'Prelado' has few to a medium number of ovules. Resistance to *Peronospora viciae* is present for the plants of 'Eldorado' while it is absent for the plants of 'Prelado'.*

### Description:

**PLANT:** garden type, no anthocyanin colouration, dark to very dark blue green foliage, flowers very early in the season

**STEM:** no anthocyanin colouration of axil, no fasciation, medium length, medium number of nodes up to and including the first fertile node (ranging from 9 to 12 nodes)

**LEAF:** medium number of leaflets present

**LEAFLET:** medium size, medium length and width, broadest part strongly towards the base, absent or very weak dentation

**STIPULE:** medium length and width, small to medium size, medium length from axil to tip, dense flecking

**PETIOLE:** short to medium length from axil to first leaflet or tendril

**FLOWER:** maximum of one to two per node

**STANDARD:** whitish cream, narrow to medium width, moderately raised to level base

**UPPER SEPAL:** narrow to medium width, acuminate apex

**PEDUNCLE:** very short to short spur, short from stem to first pod, short between first and second pod, absent or few bracts

**POD:** medium length and width, entire parchment, blunt distal part, very weak to weak curvature, medium to dark green, medium number of ovules

**IMMATURE SEED:** medium to dark green

**SEED:** cylindrical, compound starch grains, medium to strong intensity of wrinkling of cotyledon, green cotyledon, medium weight

**HILUM:** same colour as testa

**DISEASE REACTION:** resistant to *Fusarium oxysporum* f. sp. *pisi* Race 1 and *Peronospora viciae* (Pv) (downey mildew); no resistance to *Erysiphe pisi* Syd. (powdery mildew)

**Origin and Breeding:** 'Eldorado' (experimental designation D85460) originated from the cross between G195-T3 and 'Prelado', with three subsequent backcrosses to 'Prelado', conducted in 2006 in Enkhuizen, Netherlands. In 2007, the BC3F1 and BC3F2 generations were planted. Line selections made from the BC3F3 and BC3F4 generations were selfed in 2008 and 2009, respectively. In 2009 and 2010, the BC3F5 and BC3F6 generations were planted. In 2010, line selections from BC3F7 generation were selfed. The BC3F8 and BC3F9 generations were planted in 2011 and 2013, respectively. In 2013, the BC3F10 was bulked as breeder seed. Selection criteria was based on downey mildew and *Fusarium* (Race1) resistances, adaptation, yield, leaf type, and maturity class.

**Tests and Trials:** The detailed description of 'Eldorado' is based on the UPOV report of Technical Examination, reference number ERW1178, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. Two trials were conducted in one

growing cycle, at the Naktuinbouw in Roelofarendsveen, Netherlands and at the Central Institute for Supervising and Testing in Agriculture, Brno, Czech Republic in 2018.



Pea: 'Eldorado'

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**Proposed denomination:** 'Festivert'  
**Application number:** 20-10101  
**Application date:** 2020/02/24  
**Applicant:** Syngenta Participations AG, Basel, Switzerland  
**Agent in Canada:** Syngenta Canada Inc., Guelph, Ontario  
**Breeder:** Syngenta Participations AG, Basel, Switzerland

**Variety used for comparison:** 'Controvert'

**Summary:** *The seed of 'Festivert' has a strong intensity of wrinkling of the cotyledon while the seed of 'Controvert' has a medium intensity of wrinkling of the cotyledon. Resistance to *Peronospora viciae* is absent for the plants of 'Festivert' while it is present for the plants of 'Controvert'.*

**Description:**

**PLANT:** garden type, no anthocyanin colouration, medium green foliage, flowers late in the season

**STEM:** no anthocyanin colouration of axil, no fasciation, short to medium length, very many nodes up to and including the first fertile node (ranging from 16 to 18 nodes)

**LEAFLETS:** absent

**STIPULE:** medium length, narrow to medium width, small to medium size, medium length from axil to tip, medium to dense flecking

**PETIOLE:** medium length from axil to first tendril, medium length from axil to last tendril

**FLOWER:** maximum of two per node

STANDARD: white, narrow to medium width, level base

UPPER SEPAL: narrow, rounded apex

PEDUNCLE: short spur, medium length from stem to first pod, short between first and second pod, absent or few bracts

POD: medium to long, narrow to medium width, entire parchment, pointed distal part weak to medium curvature, medium to dark green, many to very many ovules

IMMATURE SEED: medium to dark green

SEED: cylindrical, compound starch grains, strong intensity of wrinkling of cotyledon, green cotyledon, very low weight

HILUM: same colour as testa

DISEASE REACTION: resistant to *Fusarium oxysporum* f. sp. *lisi* Race 1 and *Erysiphe pisi* Syd. (powdery mildew); no resistance to Pea Enation Mosaic Virus and *Peronospora viciae* (Pv) (downey mildew)

**Origin and Breeding:** ‘Festivert’ (experimental designation D175161) originated from the cross between HP2350 and D9732, conducted in 2000 in Enkhuizen, Netherlands. In 2000, the F1 generation was planted. From 2000 to 2006, pedigree selections were conducted on the F2 to F8 generations. In 2006, the F9 generation was bulked as breeder seed. Selection criteria was based on *Fusarium* (Race1) and powdery mildew resistances, adaptation, yield, leaf type, and maturity class.

**Tests and Trials:** The detailed description of ‘Festivert’ is based on the UPOV report of Technical Examination, reference number ERW1141, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. Two trials were conducted in one growing cycle, at the Naktuinbouw in Roelofarendsveen, Netherlands and at the Central Institute for Supervising and Testing in Agriculture, Brno, Czech Republic in 2015.



Pea: ‘Festivert’

**Proposed denomination:** 'Idalgo'  
**Application number:** 19-10009  
**Application date:** 2019/10/01  
**Applicant:** Syngenta Participations AG, Basel, Switzerland  
**Agent in Canada:** Syngenta Canada Inc., Guelph, Ontario  
**Breeder:** Syngenta Participations AG, Basel, Switzerland

**Variety used for comparison:** 'Saltingo'

**Summary:** *The stem of 'Idalgo' is short to medium in length while the stem of 'Saltingo' is medium in length. The pod of 'Idalgo' is long while the pod of 'Saltingo' is medium to long. The pod curvature is weak for 'Idalgo' while it is very weak to weak for 'Saltingo'.*

**Description:**

PLANT: garden type, no anthocyanin colouration, medium green foliage, flowers early in the season

STEM: no anthocyanin colouration of axil, no fasciation, short to medium length, medium number of nodes up to and including the first fertile node (ranging from 11 to 12 nodes)

LEAFLETS: absent

STIPULE: long, medium to broad, medium to large, medium to long from axil to tip, medium to dense flecking

PETIOLE: medium length from axil to first tendril, medium to long from axil to last tendril

FLOWER: maximum of two per node

STANDARD: white, medium to broad, level to moderately arched base

UPPER SEPAL: medium width, acuminate apex

PEDUNCLE: very short spur, short from stem to first pod, very short to short between first and second pod, absent or few bracts

POD: long, medium width, entire parchment, pointed distal part, weak curvature, medium green, medium to many ovules

IMMATURE SEED: medium to dark green

SEED: cylindrical, compound starch grains, strong intensity of wrinkling of cotyledon, green cotyledon, medium weight

HILUM: same colour as testa

DISEASE REACTION: resistant to *Fusarium oxysporum* f. sp. *pisi* Race 1, *Erysiphe pisi* Syd. (powdery mildew) and *Peronospora viciae* (Pv) (downey mildew)

**Origin and Breeding:** 'Idalgo' (experimental designation D165618) originated from the cross between GP0745 and FP2318, with a subsequent backcross to FP2318, conducted in 2008, in Enkhuizen, Netherlands. In 2009, the BC1F1 generation was planted. Selections made from the BC1F2 generation were selfed. In 2009 and 2010, the BC1F3 to BC1F6 generations were planted and selections made from the BC1F6 were selfed. In 2011, the BC1F7 was bulked as breeder seed. Selection criteria was based on downey mildew, powdery mildew, and *Fusarium* (Race1) resistances, adaptation, yield, leaf type, and maturity class.

**Tests and Trials:** The detailed description of 'Idalgo' is based on the UPOV report of Technical Examination, reference number ERW1165, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. Two trials were conducted in one growing cycle, at the Naktuinbouw in Roelofarendsveen, Netherlands and at the Central Institute for Supervising and Testing in Agriculture, Brno, Czech Republic from 2016 to 2017.



Pea: 'Idalgo'

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**Proposed denomination:** 'Kengo'  
**Application number:** 20-10088  
**Application date:** 2020/02/05  
**Applicant:** Syngenta Participations AG, Basel, Switzerland  
**Agent in Canada:** Syngenta Canada Inc., Guelph, Ontario  
**Breeder:** Syngenta Participations AG, Basel, Switzerland

**Description:**

**PLANT:** garden type, no anthocyanin colouration, medium green foliage, flowers early to mid season

**STEM:** no anthocyanin colouration of axil, no fasciation, medium length, many nodes up to and including the first fertile node (ranging from 12 to 15 nodes)

**LEAFLETS:** absent

**STIPULE:** long to very long, medium to broad, medium to large, long from axil to tip, medium density of flecking

**PETIOLE:** medium length from axil to first tendril, medium length from axil to last tendril

**FLOWER:** maximum of two per node

**STANDARD:** white, medium width, moderately arched base

**UPPER SEPAL:** medium width, acute apex

**PEDUNCLE:** short spur, medium length from stem to first pod, medium length between first and second pod, absent or few bracts

**POD:** medium length and width, entire parchment, blunt distal part, very weak to weak curvature, medium green, medium number of ovules

**IMMATURE SEED:** medium green

**SEED:** cylindrical, compound starch grains, medium to strong intensity of wrinkling of cotyledon, yellow cotyledon, low to medium weight

**HILUM:** same colour as testa

**DISEASE REACTION:** resistant to *Fusarium oxysporum* f. sp. *pisii* Race 1, *Erysiphe pisi* Syd. (powdery mildew), Pea Enation Mosaic Virus (PEMV) and *Peronospora viciae* (Pv) (downey mildew)

**Origin and Breeding:** ‘Kengo’ (experimental designation D165315) originated from the cross between G 53-T1 and ‘Novella’, with a subsequent backcross to ‘Novella’, conducted in 2004 in Enkhuizen, Netherlands. In 2004, the BC1F1 and BC1F2 generations were planted. In 2005, selections made from BC1F3 were selfed. The BC1F4, BC1F5 and BC1F6 generations were planted from 2005 to 2006 and in 2007, selections made from the BC1F7 were selfed. In 2008, the BC1F8 generation was planted and in 2009, the BC1F9 was bulked as breeder seed. Selection criteria was based on downey mildew, powdery mildew, Pea Enation Mosaic Virus and *Fusarium* (Race1) resistances, adaptation, yield, leaf type, stem fasciation, seed type and maturity class.

**Tests and Trials:** The detailed description of ‘Kengo’ is based on the UPOV report of Technical Examination, reference number ERW1169, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. Two trials were conducted in one growing cycle, at the Naktuinbouw in Roelofarendsveen, Netherlands and at the Central Institute for Supervising and Testing in Agriculture, Brno, Czech Republic in 2017.



Pea: ‘Kengo’

**Proposed denomination:** ‘Saltingo’  
**Application number:** 19-10010  
**Application date:** 2019/10/01  
**Applicant:** Syngenta Participations AG, Basel, Switzerland  
**Agent in Canada:** Syngenta Canada Inc., Guelph, Ontario  
**Breeder:** Syngenta Participations AG, Basel, Switzerland

**Variety used for comparison:** ‘Kudrnác’

**Summary:** *The stem of ‘Saltingo’ is medium in length with few to a medium number of nodes, up to and including the first fertile node, while the stem of ‘Kudrnác’ is short with medium to many nodes, up to and including the first fertile node. The plants of ‘Saltingo’ flower early in the season while those of ‘Kudrnác’ flower early to mid-season. The pod of ‘Saltingo’ is medium to long while the pod of ‘Kudrnác’ is long. The pod of ‘Saltingo’ is medium in width but narrower than the pod of ‘Kudrnác’ which is also medium in width. The pod curvature is very weak to weak for ‘Saltingo’ while it is weak to medium for ‘Kudrnác’.*

**Description:**

PLANT: garden type, no anthocyanin colouration, medium green foliage, flowers early in the season

STEM: no anthocyanin colouration of axil, no fasciation, medium length, few to a medium number of nodes up to and including the first fertile node (ranging from 10 to 11 nodes)

LEAFLETS: absent

STIPULE: long, medium to broad, medium to large, long from axil to tip, medium to dense flecking

PETIOLE: medium to long from axil to first tendril, long from axil to last tendril

FLOWER: maximum of two per node

STANDARD: white, medium to broad, level to moderately arched base

UPPER SEPAL: medium width, acute apex

PEDUNCLE: very short to short spur, medium length from stem to first pod, short between first and second pod, absent or few bracts

POD: medium to long, medium width, entire parchment, pointed distal part, very weak to weak curvature, medium green, medium to many ovules

IMMATURE SEED: medium green

SEED: cylindrical, compound starch grains, weak to medium intensity of wrinkling of cotyledon, green cotyledon, medium weight

HILUM: same colour as testa

DISEASE REACTION: resistant to *Fusarium oxysporum* f. sp. *pisii* Race 1, *Erysiphe pisi* Syd. and *Peronospora viciae* (Pv) (downey mildew)

**Origin and Breeding:** ‘Saltingo’ (experimental designation D165621) originated from the cross between GP0745 and FP2338, with a subsequent backcross to FP2338, conducted in 2009 in Enkhuizen, Netherlands. In 2009, the BC1F1 and BC1F2 generations were planted. In 2010, selections made from the BC1F3 were selfed. In 2010, the BC1F4 generation was planted and in 2011 the BC1F5 bulked as breeder seed. Selection criteria was based on downey mildew, powdery mildew, and *Fusarium* (Race1) resistances, adaptation, yield, leaf type, and maturity class.

**Tests and Trials:** The detailed description of ‘Saltingo’ is based on the UPOV report of Technical Examination, reference number ERW1161, purchased from the Naktuinbouw in Roelofarendsveen, Netherlands. Two trials were conducted in one growing cycle, at the Naktuinbouw in Roelofarendsveen, Netherlands and at the Central Institute for Supervising and Testing in Agriculture, Brno, Czech Republic in 2016.



Pea: 'Saltingo'

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