



APPLICATIONS UNDER EXAMINATION

PETUNIA

PETUNIA (*Petunia*)

Proposed denomination: 'PEHY0044'
Application number: 19-9994
Application date: 2019/09/04
Applicant: Syngenta Participations AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Theodorus C. M. van Kleinwee, Syngenta Seeds B.V., Enkhuizen, Netherlands

Description:

PLANT: upright to spreading growth habit, short
SHOOT: short to medium length

LEAF: elliptic, short to medium length, narrow to medium width, obtuse apex, no variegation, medium green on upper side

PEDICEL: short, absent or very weak intensity of anthocyanin colouration

CALYX LOBE: short, very narrow

FLOWER: single type

COROLLA: narrow, weak degree of lobing, absent or very weak degree of undulation

COROLLA LOBE (INNER SIDE): absent or very weak conspicuousness of veins, medium violet (darker than RHS N78A) when newly opened, mainly medium violet (RHS N78A) when fully opened, medium amount of white (RHS NN155C) secondary colour along mid-veins, medium number of flowers with different sized area of secondary colour, medium violet (RHS N78A) when aged, truncate apex

COROLLA TUBE: narrow, dark violet (RHS N92A) on inner side, strong conspicuousness of veins on inner side, dark violet (RHS 79B) on outer side

ANTHER: light blue pollen

Origin and Breeding: 'PEHY0044' originated from a controlled cross conducted by the breeder, Theodorus van Kleinwee, in Enkhuizen, the Netherlands, in October 2015. The cross was made between the female parent variety 'PEHY0032' and the male parent, a proprietary seedling designated 'P0082'. The resultant seed was sown in January 2016. A single unique seedling was selected in May 2016, in Enkhuizen, based on plant growth habit, flowering time, flower size and flower colour.

Tests and Trials: The detailed description of 'PEHY0044' is based on the UPOV Report of Technical Examination, application number 2019/1170, purchased from Community Plant Variety Office in Angers, France. The trials were conducted by the Bundessortenamt in Hannover, Germany in 2020. Colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.



Petunia: 'PEHY0044'



Petunia: 'PEHY0044'

Proposed denomination: 'PEHY0047'
Application number: 19-9995
Application date: 2019/09/04
Applicant: Syngenta Participations AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Theodorus C. M. van Kleinwee, Syngenta Seeds B.V., Enkhuizen, Netherlands

Variety used for comparison: 'PEHY0004'

Summary: *The calyx lobe of 'PEHY0047' is of medium width whereas the calyx lobe of 'PEHY0004' is very narrow. The corolla of 'PEHY0047' is medium to broad whereas the corolla of 'PEHY0004' is narrow. The corolla tube of 'PEHY0047' is very broad whereas the corolla tube of 'PEHY0004' is of medium width.*

Description:

PLANT: spreading growth habit, short

SHOOT: medium to long

LEAF: ovate, medium length, medium to broad, obtuse apex, no variegation, medium green on upper side

PEDICEL: very short, absent or very weak intensity of anthocyanin colouration

CALYX LOBE: long, medium width

FLOWER: single type

COROLLA: medium to broad, medium degree of lobing, weak degree of undulation

COROLLA LOBE (INNER SIDE): weak conspicuousness of purple veins, medium purple red (RHS N66A) when newly opened, mainly medium purple red (RHS N66B) when fully opened, medium amount of light violet (more red than RHS 75B) secondary colour along the fused parts of the corolla lobes, absent or few flowers with different sized area of secondary colour, medium purple red (RHS N66B) when aged, truncate apex

COROLLA TUBE: very broad, dark purple (RHS N77B) on inner side, medium conspicuousness of veins on inner side, medium blue pink (RHS 186D) on outer side

ANTHER: whitish pollen

Origin and Breeding: 'PEHY0047' originated from a controlled cross conducted by the breeder, Theodorus van Kleinwee, in Enkhuizen, the Netherlands, in October 2015. The cross was made between two proprietary seedlings, the female parent designated 'BA0089-2' and the male parent designated 'BA0391-2'. The resultant seed was sown in January 2016. A single unique seedling was selected in May 2016, in Enkhuizen, based on plant growth habit, flowering time, flower size and flower colour.

Tests and Trials: The detailed description of 'PEHY0047' is based on the UPOV Report of Technical Examination, application number 2019/1119, purchased from Community Plant Variety Office in Angers, France. The trials were conducted by the Bundessortenamt in Hannover, Germany in 2020. Colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.



Petunia: 'PEHY0047'



Petunia: 'PEHY0047'

Proposed denomination:	‘PEHY0050’
Trade name:	Itsy Magenta
Application number:	20-10320
Application date:	2020/07/20
Applicant:	Syngenta Crop Protection AG, Basel, Switzerland
Agent in Canada:	BioFlora Inc., St. Thomas, Ontario
Breeder:	Theodorus C. M. van Kleinwee, Syngenta Seeds B.V., Enkhuizen, Netherlands

Varieties used for comparison: ‘PEHY0031’ (Dekko Purple) and ‘USTUN34803’ (Supertunia Mini Vista Sangria)

Summary: *The plants of ‘PEHY0050’ are narrower than the plants of ‘PEHY0031’. The leaves of ‘PEHY0050’ are shorter than those of ‘PEHY0031’ and longer than those of ‘USTUN34803’. The leaves of ‘PEHY0050’ are narrower than the leaves of ‘PEHY0031’. The sepals of ‘PEHY0050’ are smaller than those of ‘PEHY0031’ and larger than those of ‘USTUN34803’. The corolla of ‘PEHY0050’ is smaller than the corolla of ‘PEHY0031’. The corolla tube of ‘PEHY0050’ is shorter than the corolla tube of both reference varieties. The veins on the inner side of the corolla lobes of ‘PEHY0050’ are absent or weakly conspicuous whereas those of ‘PEHY0031’ have medium conspicuousness and those of ‘USTUN34803’ have a conspicuousness ranging from weak to medium.*

Description:

PLANT: semi-upright to spreading growth habit
SHOOT: thin

LEAF: elliptic, narrow to broad acute apex, no variegation, medium green on upper side, absent or weak blistering

PEDICEL: absent or very weak intensity of anthocyanin colouration

FLOWER: single type, salverform

COROLLA: strong degree of lobing, absent or very shallow margin incisions, medium to strong degree of undulation

COROLLA LOBE (INNER SIDE): absent or very weak conspicuousness of red to purple veins, medium purple (RHS NN78A) when newly opened, medium purple (RHS NN74A) when fully opened and aged, cuspidate apex

COROLLA TUBE: medium violet (RHS N81A) on inner side, conspicuousness of veins ranging from weak to medium on inner side, dark purple (RHS N79B-C) on outer side

ANTHER: light grey to light blue pollen

Origin and Breeding: ‘PEHY0050’ originated from a controlled cross conducted by the breeder, Theodorus van Kleinwee, in Enkhuizen, the Netherlands, in October 2015. The cross was made between two proprietary seedlings, the female parent designated ‘N3118-1’ and the male parent designated ‘N4679-1’. The resultant seed was sown in January 2016. A single unique seedling was selected in May 2016, in Enkhuizen, based on plant growth habit, flower size and flower colour.

Tests and Trials: The comparative trial for ‘PEHY0050’ was conducted in a polyhouse during the spring of 2021 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 20 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 14, 2021. Observations and measurements were taken from 10 plants or parts of plants of each variety on May 24, 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% probability level based on paired Student’s T-tests.

Comparison table for ‘PEHY0050’

	‘PEHY0050’	‘PEHY0031’*	‘USTUN34803’*
<i>Plant width (cm)</i>			
mean	28.4	37.2	27.9
std. deviation	1.34	2.43	3.51
<i>Leaf length (cm)</i>			
mean	3.6	5.9	3.2
std. deviation	0.34	0.35	0.38
<i>Leaf width (cm)</i>			
mean	1.7	3.1	1.1
std. deviation	0.09	0.33	0.15

<i>Sepal length (cm)</i>			
mean	0.9	1.4	0.6
std. deviation	0.09	0.17	0.10
<i>Sepal width (cm)</i>			
mean	0.25	0.41	0.18
std. deviation	0.05	0.07	0.06
<i>Corolla diameter (cm)</i>			
mean	2.4	4.6	2.3
std. deviation	0.12	0.12	0.11
<i>Corolla tube length (cm)</i>			
mean	1.7	2.5	2.0
std. deviation	0.10	0.07	0.10

*reference varieties

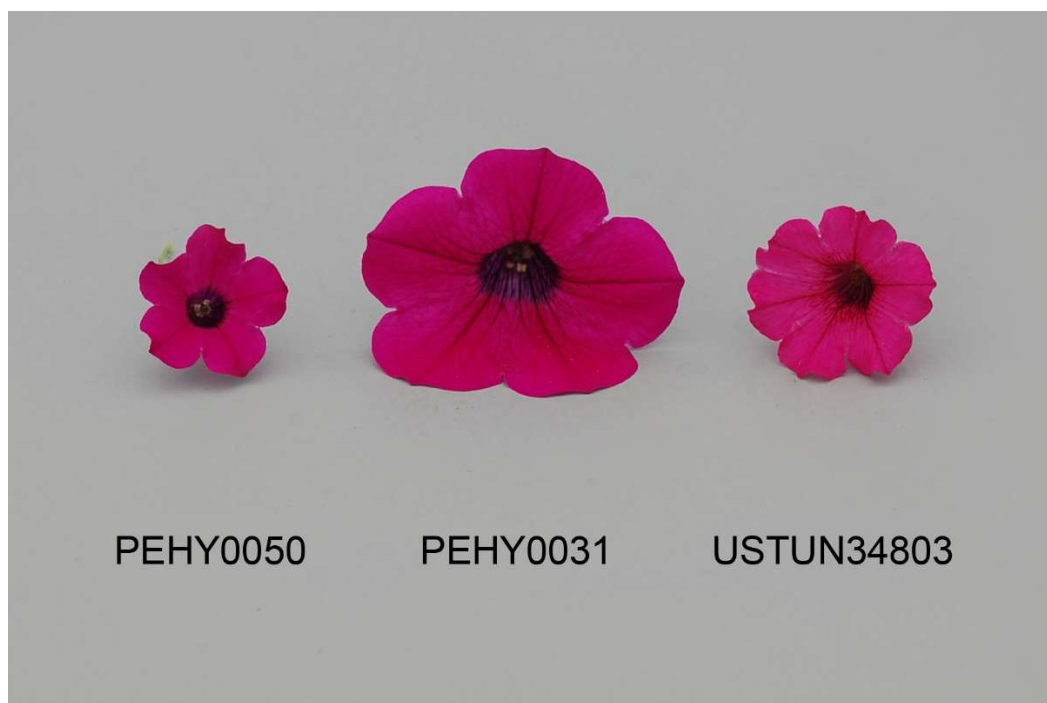


PEHY0050
Itsy Magenta

PEHY0031
Dekko Purple

USTUN34803
Supertunia Mini Vista Sangria

Petunia: 'PEHY0050' (left) and reference varieties 'PEHY0031' (centre) and 'USTUN34803' (right)



PEHY0050

PEHY0031

USTUN34803

Petunia: 'PEHY0050' (left) and reference varieties 'PEHY0031' (centre) and 'USTUN34803' (right)

PETUNIA
(*Petunia* ×*hybrida*)

Proposed denomination: 'BBTUN10102'
Trade name: Supertunia Royal Velvet Imp.
Application number: 20-10247
Application date: 2020/05/20
Applicant: Plant 21 LLC, Bonsall, California, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Brent D. Barnes, Plant 21 LLC, Bonsall, California, United States of America

Varieties used for comparison: 'Dekko Blue' and 'Sanguna Blue Imp'

Summary: *The plants of 'BBTUN10102' are smaller than those of both reference varieties. The leaves and corolla of 'BBTUN10102' are larger than those of 'Dekko Blue' and smaller than those of 'Sanguna Blue Imp'. The pedicels of 'BBTUN10102' are longer than those of 'Dekko Blue' and shorter than those of 'Sanguna Blue Imp'. The sepals of 'BBTUN10102' are larger than those of 'Dekko Blue'. The corolla of 'BBTUN10102' has a medium degree of lobing whereas the corolla of 'Dekko Blue' has a weak degree of lobing and the corolla of 'Sanguna Blue Imp' has a strong degree of lobing. The veins on the inner side of the corolla tube of 'BBTUN10102' have medium conspicuousness whereas those of 'Dekko Blue' have strong conspicuousness and those of 'Sanguna Blue Imp' have conspicuousness ranging from strong to very strong.*

Description:

PLANT: semi-upright growth habit
 SHOOT: thickness ranging from thin to medium thickness

LEAF: ovate, narrow acute apex, no variegation, medium green on upper side, absent or weak blistering

PEDICEL: medium intensity of anthocyanin colouration near calyx attachment

FLOWER: single type, salverform

COROLLA: medium degree of lobing, absent or very shallow to shallow margin incisions, medium degree of undulation

COROLLA LOBE (INNER SIDE): conspicuousness of purple to black veins ranging from weak to medium; dark violet (RHS 83A) when newly opened, fully opened and aged; cuspidate apex

COROLLA TUBE: dark violet (RHS 77A) on inner side, medium conspicuousness of veins on inner side, dark purple (RHS N79B) on outer side

ANTHER: yellowish white pollen

Origin and Breeding: 'BBTUN10102' originated from a controlled cross conducted by the breeder, Mr. Brent D. Barnes, in Bonsall, California, USA on August 17, 2016. The cross was made between two proprietary seedlings, the female parent designated '15P857-01' and the male parent designated '15PB514-03'. The new variety was selected as a single unique seedling from the cross on September 19, 2017 based on plant habit, flowering time, flowering frequency, number of flowers, flower colour and garden performance. Asexual reproduction of 'BBTUN10102' was first conducted by vegetative tip cuttings on September 22, 2017 in Bonsall, California, USA.

Tests and Trials: The comparative trial for 'BBTUN10102' was conducted in a polyhouse during the spring of 2021 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 20 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 14, 2021. Observations and measurements were taken from 10 plants or parts of plants of each variety on May 25, 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% probability level based on paired Student's T-tests.

Comparison table for 'BBTUN10102'

	'BBTUN10102'	'Dekko Blue'*	'Sanguna Blue Imp'*
<i>Plant height (cm)</i>			
mean	10.7	15.8	19.4
std. deviation	0.77	1.44	1.32
<i>Plant width (cm)</i>			
mean	29.8	33.7	49.5
std. deviation	2.28	1.33	2.39
<i>Leaf length (cm)</i>			
mean	4.3	3.4	6.2
std. deviation	0.38	0.33	0.77
<i>Leaf width (cm)</i>			
mean	1.9	1.6	4.4
std. deviation	0.18	0.12	1.43
<i>Pedicle length (cm)</i>			
mean	2.8	1.8	4.2
std. deviation	0.26	0.26	0.68
<i>Sepal length (cm)</i>			
mean	1.6	0.73	1.5
std. deviation	0.13	0.05	0.09
<i>Sepal width (cm)</i>			
mean	0.36	0.16	0.4
std. deviation	0.05	0.05	0.07
<i>Corolla diameter (cm)</i>			
mean	5.3	4.0	7.4
std. deviation	0.20	0.14	0.41

*reference varieties



BBTUN10102
Supertunia Royal Velvet Imp

Dekko Blue

Sanguna Blue Imp

Petunia: 'BBTUN10102' (left) with reference varieties 'Dekko Blue' (centre) and 'Sanguna Blue Imp' (right)



Petunia: 'BBTUN10102' (left) with reference varieties 'Dekko Blue' (centre) and 'Sanguna Blue Imp' (right)

Proposed denomination: 'BBTUN93201'
Trade name: Supertunia Mini Vista Indigo Imp.
Application number: 19-9878
Application date: 2019/05/17
Applicant: Plant 21 LLC, Bonsall, California, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Brent D. Barnes, Plant 21 LLC, Bonsall, California, United States of America

Varieties used for comparison: 'Dekko Blue' and 'Balcushlu' (ColourRush Blue)

Summary: *The plants of 'BBTUN93201' are shorter than those of both reference varieties. The plants of 'BBTUN93201' are wider than those of 'Dekko Blue' and narrower than those of 'Balcushlu'. The leaves of 'BBTUN93201' are larger than those of 'Dekko Blue' and smaller than those of 'Balcushlu'. The pedicels of 'BBTUN93201' are shorter than those of 'Balcushlu'. The sepals of 'BBTUN93201' are longer than those of 'Dekko Blue' and shorter than those of 'Balcushlu'. The corolla of 'BBTUN93201' are smaller than the corolla of 'Balcushlu'. The corolla of 'BBTUN93201' have medium degree of lobing whereas the corolla of 'Dekko Blue' have weak degree of lobing and the corolla 'Balcushlu' have strong degree of lobing. The veins on the inner side of the corolla of 'BBTUN93201' have strong conspicuousness whereas those of 'Dekko Blue' have weak conspicuousness and those of 'Balcushlu' have medium conspicuousness. When aged, the inner side of the corolla lobes of 'BBTUN93201' are a lighter violet than those for both reference varieties.*

Description:

PLANT: spreading growth habit

SHOOT: thickness ranging from thin to medium

LEAF: ovate to elliptic, broad acute apex, no variegation, medium green on upper side, absent or weak blistering

PEDICEL: weak intensity of anthocyanin colouration near calyx attachment

FLOWER: single type, salverform

COROLLA: medium degree of lobing, absent or very shallow margin incisions, weak degree of undulation

COROLLA LOBE (INNER SIDE): strong conspicuousness of purple to violet veins, dark violet (RHS 83B) when newly opened, mainly dark violet (RHS 83B) when fully opened, small amount of medium violet (RHS N82A) secondary colour along mid-veins and at margins, medium blue violet (closest to RHS N82C) when aged, cuspidate apex

COROLLA TUBE: dark violet (RHS 77A) on inner side, strong conspicuousness of veins on inner side, dark purple (RHS N79B-C) on outer side

ANTHER: violet pollen

Origin and Breeding: ‘BBTUN93201’ originated from a controlled cross conducted by the breeder, Brent D. Barnes, in Bonsall, California, USA on December 23, 2014. The cross was made between the female parent variety ‘Supertunia Indigo Charm’ and the male parent variety, a proprietary seedling designated ‘14PG037-01’. The new variety was selected as a single unique seedling from the cross on October 13, 2015 based on plant habit, flowering time, flower colour and garden performance. Asexual reproduction of ‘BBTUN93201’ was first conducted by vegetative tip cuttings on October 15, 2015 in Bonsall, California, USA.

Tests and Trials: The comparative trial for ‘BBTUN93201’ was conducted in a polyhouse during the spring of 2021 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 20 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 14, 2021. Observations and measurements were taken from 10 plants or parts of plants of each variety on May 25, 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% probability level based on paired Student’s T-tests.

Comparison table for ‘BBTUN93201’

	‘BBTUN93201’	‘Dekko Blue’**	‘Balcushlu’**
<i>Plant height (cm)</i>			
mean	11.2	15.8	16.4
std. deviation	1.65	1.44	1.73
<i>Plant width (cm)</i>			
mean	45.3	33.7	54.9
std. deviation	2.42	1.33	4.59
<i>Leaf length (cm)</i>			
mean	5.4	3.4	6.0
std. deviation	0.48	0.33	0.52
<i>Leaf width (cm)</i>			
mean	2.3	1.6	3.0
std. deviation	0.29	0.12	0.42
<i>Pedicle length (cm)</i>			
mean	1.8	1.8	2.5
std. deviation	0.23	0.26	0.35
<i>Sepal length (cm)</i>			
mean	1.0	0.73	1.3
std. deviation	0.06	0.05	0.11
<i>Corolla diameter (cm)</i>			
mean	4.0	4.0	4.6
std. deviation	0.19	0.14	0.21
<i>Colour of inner side of corolla lobe (RHS)</i>			
aged	closest to N82C	closest to 83A with lighter tones of N78A, N82A and N88C	N87A, 86A with tones of NN78A

*reference varieties



BBTUN93201
Supertunia Mini Vista Indigo Imp

Dekko Blue

Balcushlu
ColorRush Blue

Petunia: 'BBTUN93201' (left) with reference varieties 'Dekko Blue' (centre) and 'Balcushlu' (right)



BBTUN93201

Dekko Blue

Balcushlu

Petunia: 'BBTUN93201' (left) with reference varieties 'Dekko Blue' (centre) and 'Balcushlu' (right)