



APPLICATIONS UNDER EXAMINATION

PETUNIA × CALIBRACHOA

PETUNIA × CALIBRACHOA
(Petunia × Calibrachoa)

Proposed denomination: 'SAKPXC005'
Trade name: SuperCal Vanilla Blush
Application number: 09-6669
Application date: 2009/06/30
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Shin Ishikawa, Sakata Seed Corporation, Kakegawa City, Japan
 Akinobu Ui, Sakata Seed Corporation, Shizuoka-ken, Japan

Variety used for comparison: 'Kakegawa S91' (SuperCal Terracotta)

Summary: *The plants of 'SAKPXC005' are narrower than those of 'Kakegawa S91'. 'SAKPXC005' has shorter leaves than the reference variety. The flowers of 'SAKPXC005' are lighter in colour than the flowers of the reference variety 'Kakegawa S91'.*

Description:

PLANT: upright growth habit, thin shoot

LEAF: ovate to elliptic shape, obtuse apex, no variegation, medium green on upper side, no blistering

SEPAL: linear, no anthocyanin colouration

FLOWER: single type, salverform, yellow veins

COROLLA LOBE: more than two colours on upper side, white (RHS NN155B) on upper side with violet (RHS 75A-B) secondary veins, violet (RHS 75A) along corolla lobe apex and margins, secondary colour yellow to yellow green (RHS 4B-C) at transition to corolla tube, strong conspicuousness of veins on upper side, weak undulation of margin

COROLLA TUBE: yellow (RHS 9A-B) on inner side between veins, strong conspicuousness of brown purple (RHS N77A) veins on inner side, yellowish white anthers before dehiscence

Origin and Breeding: 'SAKPXC005' was developed by the breeders Akinobu Ui and Shin Ishikawa, both employees of Sakata Seed Corporation, Japan. The new variety originated from a hybridization made by the breeders in October 2004 in Kakegawa, Japan. The female parent was a proprietary hybrid Petunia line and the male parent was a proprietary Calibrachoa line. In April 2005, the selected plant was vegetatively propagated to produce rooted cuttings and was transplanted to an open field. From April to July 2005, it was evaluated for flower colour and plant growth habit. A single plant, named 'SAKPXC005' was selected based on flower colour, flower size and plant habit. From August to November 2005, 'SAKPXC005' was vegetatively propagated and transplanted into a field. In November 2005, the new variety was found to have unique characteristics that are fixed and stable.

Tests and Trials: Trials for 'SAKPXC005' were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. The trials included a total of 15 plants of each variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 27, 2010. Observations and measurements were taken from 10 plants of each variety on June 3, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'SAKPXC005'

	'SAKPXC005'	'Kakegawa S91'*
<i>Plant width (cm)</i>		
mean	30.6	43.6
std. deviation	2.19	4.78

Leaf blade length (cm)

mean	2.3	3.0
std. deviation	0.15	0.23

Colour of upper side of corolla lobe (RHS)

main colour	NN155B with 75A-B veins and 75A at apex/margin	69C with 41C-D veins, N74A-B at apex/margin, speckled with 45A and redder than N57A
secondary colour	4B-C	9A

*reference variety



Petunia × Calibrachoa: 'SAKPXC005' (left) with reference variety 'Kakegawa S91' (right)



Petunia × Calibrachoa: 'SAKPXC005' (left) with reference variety 'Kakegawa S91' (right)



Petunia × Calibrachoa: 'SAKPXC005' (left) with reference variety 'Kakegawa S91' (right)

Proposed denomination: 'SAKPXC006'
Trade name: SuperCal Blue
Application number: 09-6670
Application date: 2009/06/30
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Shin Ishikawa, Sakata Seed Corporation, Kakegawa City, Japan
 Akinobu Ui, Sakata Seed Corporation, Shizuoka-ken, Japan
 Niels G. Kristensen, 5290 Marslev, Denmark

Variety used for comparison: 'Kakegawa S90' (SuperCal Purple)

Summary: 'SAKPXC006' differs from 'Kakegawa S90' in main flower colour. The candidate variety 'SAKPXC006' has violet flowers, whereas the reference variety has purple flowers.

Description:

PLANT: upright growth habit, thin shoot

LEAF: elliptic shape, narrow to broad acute apex, no variegation, medium green on upper side, blistering present

SEPAL: linear, no anthocyanin colouration

FLOWER: single type, salverform, purple veins

COROLLA LOBE: one colour on upper side, violet (RHS N81A) on upper side with violet (RHS 79B-C) secondary veins, flower colour ages to violet (RHS N82A), medium conspicuousness of veins on upper side, medium undulation of margin

COROLLA TUBE: yellow (RHS 5B-C) on inner side between veins, very strong conspicuousness of dark violet (RHS N79A and N92A) veins on inner side, yellowish white anthers before dehiscence

Origin and Breeding: 'SAKPXC006' was developed by the breeders Akinobu Ui, Shin Ishikawa and Niels G. Kristensen, all employees of Sakata Seed Corporation, Japan. The new variety originated from a hybridization made by the breeders in May 2003 in Kakegawa, Japan. The female parent was a proprietary hybrid Petunia line and the male parent was a proprietary Calibrachoa line. In March 2004, the selections were vegetatively propagated to produce rooted cuttings and were transplanted to an open field. From April to July 2004, the selections were evaluated for flower colour and plant growth

habit. In July 2004, a single plant was selected with purple flowers, medium to large sized flowers and a semi-creeping plant habit. The selection was vegetatively propagated. In January 2007, at Petersminde Nursery, in Aabyhoej, Denmark, a mutation was discovered from the selected plant. This plant was selected based on flower colour. From January to October 2007, the new plant was propagated and transplanted in Aabyhoej, Denmark. In November 2007, the new variety called ‘SAKPXC006’ was found to have unique characteristics that are fixed and stable.

Tests and Trials: Trials for ‘SAKPXC006’ were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. The trials included a total of 15 plants of each variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 27, 2010. Observations and measurements were taken from 10 plants of each variety on June 3, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘SAKPXC006’

	‘SAKPXC006’	‘Kakegawa S90’*
<i>Colour of corolla lobe (RHS)</i>		
fully open	N81A with 79B-C veins	N74A
aged flower	N82A	more purple than N74B

*reference variety



Petunia × Calibrachoa: ‘SAKPXC006’ (left) with reference variety ‘Kakegawa S90’ (right)



SAKPXC006

Kakegawa S90

Petunia × Calibrachoa: 'SAKPXC006' (left) with reference variety 'Kakegawa S90' (right)



SAKPXC006

Kakegawa S90

Petunia × Calibrachoa: 'SAKPXC006' (left) with reference variety 'Kakegawa S90' (right)

Proposed denomination: 'SAKPXC007'
Trade name: SuperCal Cherry
Application number: 10-6806
Application date: 2010/01/14
Applicant: Sakata Seed Corporation, Yokohama, Japan
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Akinobu Ui, Sakata Seed Corporation, Shizuoka-ken, Japan
Shin Ishikawa, Sakata Seed Corporation, Kakegawa City, Japan

Variety used for comparison: ‘Kakegawa S89’ (SuperCal Neon Rose)

Summary: *The plants of ‘SAKPXC007’ are shorter than the plants of the reference variety ‘Kakegawa S89’. The flowers of ‘SAKPXC007’ are smaller in diameter than the flowers of the ‘Kakegawa S89’. The flowers of the candidate ‘SAKPXC007’ are purple red, whereas the flowers of ‘Kakegawa S89’ are purple. The veins on the inner side of the corolla tube are more conspicuous in the flowers of ‘SAKPXC007’ than the flowers of ‘Kakegawa S89’.*

Description:

PLANT: upright to creeping growth habit, medium thick shoot

LEAF: elliptic shape, broad acute apex, no variegation, medium green on upper side, no blistering

SEPAL: linear, no anthocyanin colouration

FLOWER: single type, salverform, red veins

COROLLA LOBE: one colour on upper side, purple red (RHS N66A) on upper side with dark pink red (RHS 53C) tones, weak conspicuousness of veins on upper side, weak undulation of margin

COROLLA TUBE: yellow orange (RHS 13A) on inner side between veins, strong conspicuousness of dark violet (RHS N92A) veins on inner side, yellowish white anthers before dehiscence

Origin and Breeding: The variety ‘SAKPXC007’ was developed by the breeders Akinobu Ui and Shin Ishikawa, both employees of Sakata Seed Corporation, Japan. The new variety originated from an intergeneric cross made between two proprietary lines at the Kakegawa Research Station, Kakegawa, Japan in October 2005. Intergeneric hybrid plantlets were obtained using standard ovule culture. In March 2006, 10 hybrid plantlets were transplanted to soil-less media for greenhouse culture and acclimatization. In June 2006, 10 plants out of 10 hybrid lines were vegetatively propagated to produce rooted cuttings. In July 2006, the 10 plants were transplanted to an open field and evaluated for flower colour and plant growth habit. In December 2006, one plant which had a rosy-red flower colour, good blooming ability and mounding plant habit was selected and vegetatively propagated. In March 2007, 10 cuttings were evaluated in an open field through to June 2007. In June 2007, the breeder confirmed that the distinct characteristics of the selection named ‘SAKPXC007’ were fixed and stable.

Tests and Trials: Trials for ‘SAKPXC007’ were conducted in a polyhouse during the spring of 2010 in St. Thomas, Ontario. The trials included a total of 15 plants of each variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 27, 2010. Observations and measurements were taken from 10 plants of each variety on June 3, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘SAKPXC007’

	‘SAKPXC007’	‘Kakegawa S89’*
<i>Plant height (cm)</i>		
mean	11.2	18.8
std. deviation	1.95	2.36
<i>Diameter of flower (cm)</i>		
mean	4.7	5.0
std. deviation	0.13	0.16
<i>Main colour of corolla lobe (RHS)</i>		
upper side	close to N66A with 53C (mid-lobe)	N74A
<i>Main colour of corolla tube (RHS)</i>		
inner side	13A	12A
veins	N92A	N79A

*reference variety



Petunia x Calibrachoa: 'SAKPXC007' (left) with reference variety 'Kakegawa S89' (right)



Petunia x Calibrachoa: 'SAKPXC007' (left) with reference variety 'Kakegawa S89' (right)



Petunia × Calibrachoa: 'SAKPXC007' (left) with reference variety 'Kakegawa S89' (right)