



APPLICATIONS UNDER EXAMINATION

BUTTERFLY BUSH

BUTTERFLY BUSH (*Buddleja davidii*)

Proposed denomination:	‘UCONNBD599’
Trade name:	Soda Pop Lavender
Application number:	14-8450
Application date:	2014/08/29
Applicant:	University of Connecticut, Farmington, Connecticut, United States of America
Agent in Canada:	BioFlora Inc., St. Thomas, Ontario
Breeder:	Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America William A. Smith, Smith, William Addison, Bristol, Connecticut, United States of America

Varieties used for comparison: ‘Peakeep’ (Peacock) and ‘UCONNBD610’ (Soda Pop Purple)

Summary: *The plants of ‘UCONNBD599’ are shorter than those of ‘Peakeep’. The plants of ‘UCONNBD599’ are broader than they are tall while those of ‘Peakeep’ are taller than they are broad. The stem of ‘UCONNBD599’ has very dense pubescence while the stem of ‘Peakeep’ has medium to dense pubescence and the stem of ‘UCONNBD610’ has dense pubescence. The leaf blade of ‘UCONNBD599’ is shorter than that of ‘Peakeep’. The upper side of the leaf blade of ‘UCONNBD599’ is dark green while the upper side of the leaf blade of the reference varieties is medium green. The inner side of the corolla lobe of ‘UCONNBD599’ is light blue violet whereas the corolla lobe of ‘Peakeep’ is violet and that of ‘UCONNBD610’ is violet with blue violet along the margin.*

Description:

PLANT: semi-upright to spreading growth habit, broader than tall, flowering begins mid-season

STEM: green with purplish tones, strongly angular in cross-section, very dense pubescence

LEAF BLADE: lanceolate, dark green on upper side, no variegation, crenate and serrulate margin, very sparse pubescence on upper side, very dense pubescence on lower side, medium degree of bulging between veins

INFLORESCENCE: conical, very dense flowers

CALYX: medium length, medium to dense pubescence

COROLLA LOBE: semi-erect to horizontal attitude at full flowering, non-touching arrangement, medium depth margin incisions, inner side light blue violet (RHS 76A), yellow orange (RHS 23A) eye

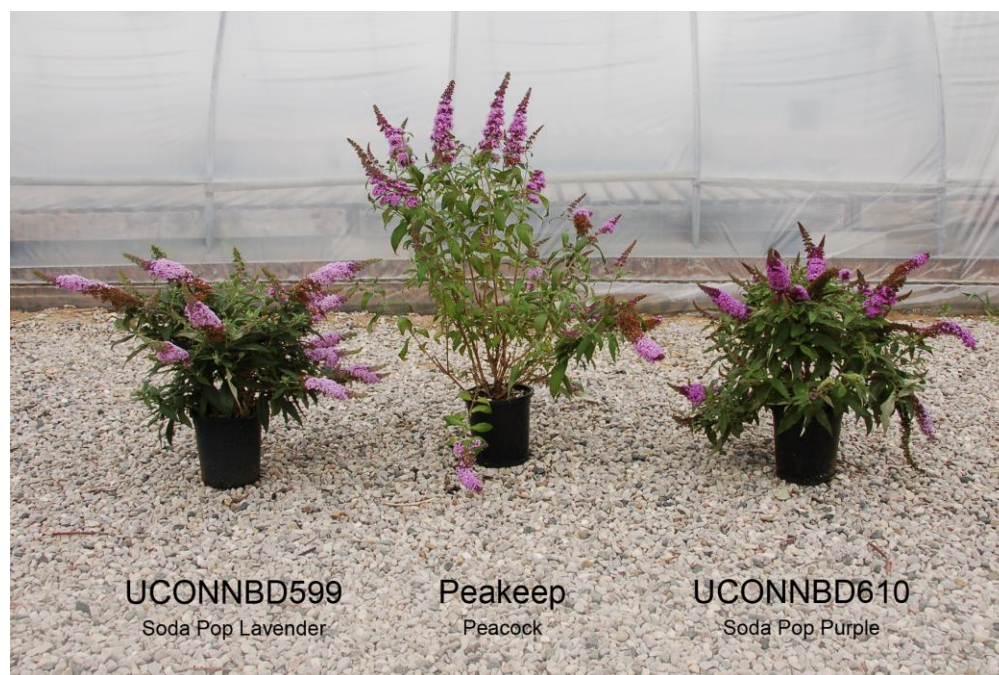
Origin and Breeding: ‘UCONNBD599’ originated from a controlled cross conducted in Storrs, Connecticut, USA by breeders, Dr. Mark Henry Brand, an employee of the University of Connecticut, and William Addison Smith, a former student at the University of Connecticut. In July 2008, the cross was made between two *Buddleja davidii* varieties, proprietary selection ‘UConn dwf-01’ as the female parent, and ‘Pink Delight’ as the male parent. ‘UCONNBD599’ was selected in July 2010 based on its compact and dense plant growth habit, thick stems with short internodes, wide textured leaves, numerous panicles and cold temperature hardiness. Asexual propagation was first conducted by softwood cuttings in July 2010 in Storrs, Connecticut, USA.

Tests and Trials: The comparative trial for ‘UCONNBD599’ was conducted in a polyhouse during the spring and summer of 2018, at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 12 plants each of the candidate and reference varieties. All plants were grown from 10 cm rooted liners and transplanted into 9 litre containers on July 19, 2016. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 26, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

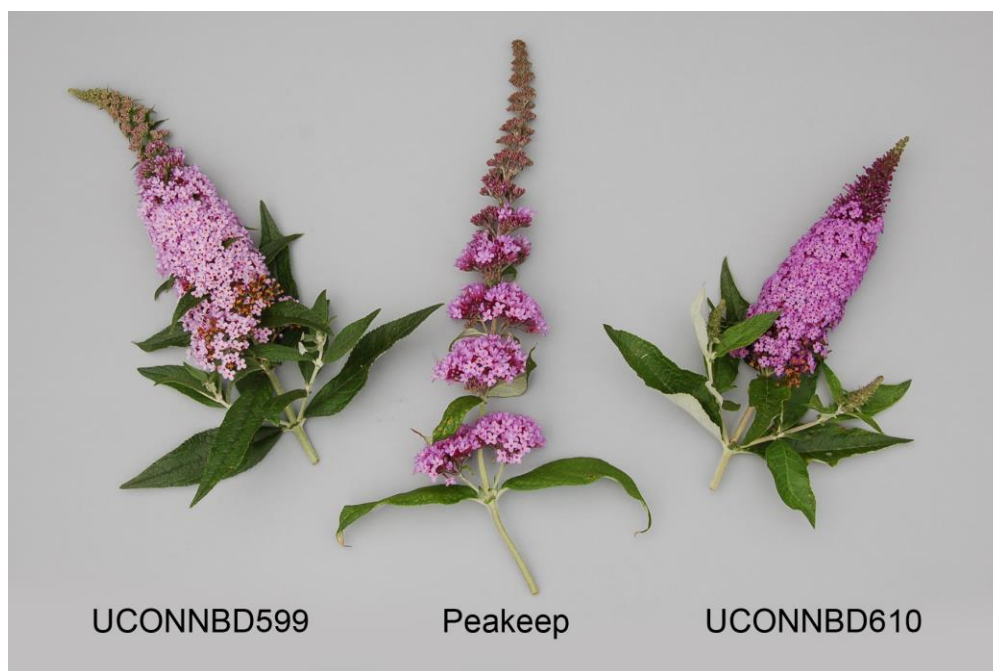
Comparison table for 'UCONNBD599'

	'UCONNBD599'	'Peakeep'*	'UCONNBD610'*
<i>Plant height (cm)</i>			
mean	59.2	104.1	54.3
std. deviation	4.74	9.24	6.24
<i>Leaf blade length (cm)</i>			
mean	12.5	14.7	12.6
std. deviation	0.97	1.44	1.61
<i>Colour of corolla lobe (RHS)</i>			
inner side	76A	N81C-D	N80B with 90C along margin

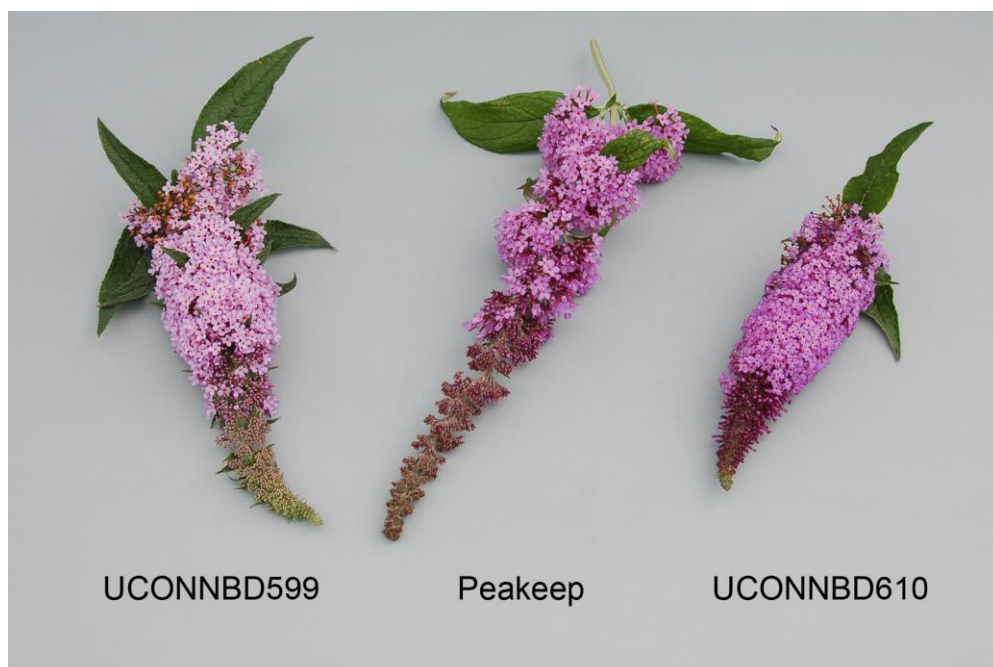
*reference varieties



Butterfly Bush: 'UCONNBD599' (left) with reference varieties 'Peakeep' (centre) and 'UCONNBD610' (right)



Butterfly Bush: 'UCONNBD599' (left) with reference varieties 'Peakeep' (centre) and 'UCONNBD610' (right)



Butterfly Bush: 'UCONNBD599' (left) with reference varieties 'Peakeep' (centre) and 'UCONNBD610' (right)

Proposed denomination: 'UCONNBD603'
Trade name: Soda Pop White
Application number: 14-8451
Application date: 2014/08/29
Applicant: University of Connecticut, Farmington, Connecticut, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America
William A. Smith, Smith, William Addison, Bristol, Connecticut, United States of America

Variety used for comparison: 'Ice Chip' (Lo & Behold Ice Chip)

Summary: *The plants of 'UCONNBD603' are taller than those of 'Ice Chip'. The leaf blade of 'UCONNBD603' is lanceolate, and longer than that of 'Ice Chip', which is narrow ovate. The upper side of the leaf blade of 'UCONNBD603' has absent or very sparse pubescence while the leaf blade of 'Ice Chip' has medium density pubescence. The inflorescence of 'UCONNBD603' is larger than the inflorescence of 'Ice Chip'. The inflorescence of 'UCONNBD603' has very dense flowers while that of 'Ice Chip' has sparse to medium density flowers. The corolla lobes of 'UCONNBD603' are non-touching whereas the corolla lobes of 'Ice Chip' are overlapping.*

Description:

PLANT: semi-upright to spreading growth habit, broader than tall, flowering begins mid-season

STEM: green, moderately angular in cross-section, dense pubescence

LEAF BLADE: lanceolate, medium green on upper side, no variegation, dentate to serrulate margin, absent or very sparse pubescence on upper side, pubescence present on lower side, medium degree of bulging between veins

INFLORESCENCE: conical, very dense flowers

CALYX: medium length, very dense pubescence

COROLLA LOBE: semi-erect attitude at full flowering, non-touching arrangement, medium depth margin incisions, inner side white (RHS NN155D), orange eye

Origin and Breeding: 'UCONNBD603' originated from a controlled cross conducted in Storrs, Connecticut, USA by breeders, Dr. Mark Henry Brand, an employee of the University of Connecticut, and William Addison Smith, a former student at the University of Connecticut. In July 2008, the cross was made between two *Buddleja davidii* varieties, proprietary selection 'UConn dwf-01' as the female parent, and 'White Profusion' as the male parent. 'UCONNBD603' was selected in July 2010 based on its compact and dense plant growth habit, thick stems with short internodes, wide textured leaves, numerous panicles and cold temperature hardiness. Asexual propagation was first conducted by softwood cuttings in July 2010 in Storrs, Connecticut, USA.

Tests and Trials: The comparative trial for 'UCONNBD603' was conducted in a polyhouse during the spring and summer of 2018, at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 12 plants each of the candidate and reference variety. All plants were grown from 10 cm rooted liners and transplanted into 9 litre containers on July 19, 2016. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 26, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'UCONNBD603'

	'UCONNBD603'	'Ice Chip'*
<i>Plant height (cm)</i>		
mean	45.9	21.8
std. deviation	4.26	5.42
<i>Leaf blade length (cm)</i>		
mean	12.1	8.0
std. deviation	1.11	0.97
<i>Inflorescence length (cm)</i>		
mean	20.1	15.3
std. deviation	1.63	2.04
<i>Inflorescence width (cm)</i>		
mean	5.1	3.3
std. deviation	0.33	0.33

*reference variety



Butterfly Bush: 'UCONNBD603' (left) with reference variety 'Ice Chip' (right)



Butterfly Bush: 'UCONNBD603' (left) with reference variety 'Ice Chip' (right)

Proposed denomination:	'UCONNBD604'
Trade name:	Soda Pop Blue
Application number:	14-8452
Application date:	2014/08/29
Applicant:	University of Connecticut, Farmington, Connecticut, United States of America
Agent in Canada:	BioFlora Inc., St. Thomas, Ontario
Breeder:	Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America William A. Smith, Smith, William Addison, Bristol, Connecticut, United States of America

Varieties used for comparison: 'Adokeep' (Adonis Blue) and 'UCONNBD610' (Soda Pop Purple)

Summary: *The plants of 'UCONNBD604' are shorter than those of both reference varieties. The plants of 'UCONNBD604' are broader than they are tall while those of 'Adokeep' are taller than they are broad. The stem of 'UCONNBD604' has very dense pubescence while the stem of both reference varieties has dense pubescence. The upper side of the leaf blade of 'UCONNBD604' is dark green while the leaf blade of 'Adokeep' is light to medium green and that of 'UCONNBD610' is medium green. The leaf blade and inflorescence of 'UCONNBD604' are smaller than those of both reference varieties. The inner side of the corolla lobe of 'UCONNBD604' is violet with blue violet along the margin whereas the corolla lobe of 'Adokeep' is blue violet with darker blue violet along the margin and that of 'UCONNBD610' is pinker violet with blue violet along the margin.*

Description:

PLANT: semi-upright to spreading growth habit, broader than tall, flowering begins mid-season

STEM: green, moderately angular in cross-section, very dense pubescence

LEAF BLADE: lanceolate, dark green on upper side, no variegation, dentate margin, sparse pubescence on upper side, pubescence present on lower side, absent or weak to medium degree of bulging between veins

INFLORESCENCE: conical, dense to very dense flowers

CALYX: medium length, very dense pubescence

COROLLA LOBE: semi-erect to horizontal attitude at full flowering, non-touching arrangement, medium depth margin incisions, inner side violet (RHS 84A) with blue violet (RHS 90C) along margin, yellow orange (RHS 17A) eye

Origin and Breeding: ‘UCONNBD604’ originated from a controlled cross conducted in Storrs, Connecticut, USA by breeders, Dr. Mark Henry Brand, an employee of the University of Connecticut, and William Addison Smith, a former student at the University of Connecticut. In July 2008, the cross was made between the *Buddleja davidii* varieties ‘Adokeep’ (female parent) and the proprietary selection ‘UConn dwf-01’ (male parent). ‘UCONNBD604’ was selected in July 2010 based on its compact and dense plant growth habit, thick stems with short internodes, wide textured leaves, numerous panicles and cold temperature hardiness. Asexual propagation was first conducted by softwood cuttings in July 2010 in Storrs, Connecticut, USA.

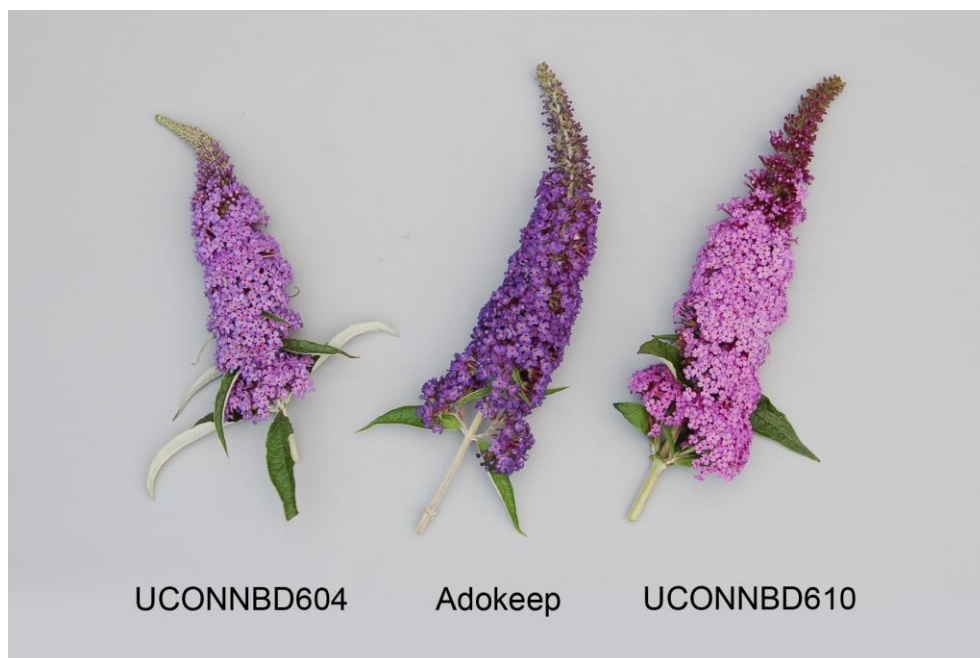
Tests and Trials: The comparative trial for ‘UCONNBD604’ was conducted in a polyhouse during the spring and summer of 2018, at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 12 plants each of the candidate and reference varieties. All plants were grown from 10 cm rooted liners and transplanted into 9 litre containers on July 19, 2016. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 26, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘UCONNBD604’

	‘UCONNBD604’	‘Adokeep’*	‘UCONNBD610’*
<i>Plant height (cm)</i>			
mean	39.6	92.4	54.3
std. deviation	5.93	7.64	6.24
<i>Leaf blade length (cm)</i>			
mean	9.5	12.7	12.6
std. deviation	0.58	0.97	1.61
<i>Leaf blade width (cm)</i>			
mean	2.8	4.0	4.6
std. deviation	0.17	0.24	0.45
<i>Inflorescence length (cm)</i>			
mean	19.4	29.1	29.9
std. deviation	2.32	3.97	3.05
<i>Inflorescence width (cm)</i>			
mean	4.2	5.1	5.4
std. deviation	0.47	0.40	0.39
<i>Colour of corolla lobe (RHS)</i>			
inner side	84A with 90C along margin	N88B with 90B along margin	N80B with 90C along margin
*reference varieties			



Butterfly Bush: 'UCONNBD604' (left) with reference varieties 'Adokeep' (centre) and 'UCONNBD610' (right)



Butterfly Bush: 'UCONNBD604' (left) with reference varieties 'Adokeep' (centre) and 'UCONNBD610' (right)

Proposed denomination: 'UCONNBD610'
Trade name: Soda Pop Purple
Application number: 14-8453
Application date: 2014/08/29
Applicant: University of Connecticut, Farmington, Connecticut, United States of America
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Mark Henry Brand, University of Connecticut, Storrs, Connecticut, United States of America
William A. Smith, Smith, William Addison, Bristol, Connecticut, United States of America

Varieties used for comparison: 'Pyrkeep' (Purple Emporer) and 'UCONNBD599' (Soda Pop Lavender)

Summary: *The plants of 'UCONNBD610' are broader than they are tall while those of 'Pyrkeep' are taller than they are broad. The leaf blade of 'UCONNBD610' is wider than that of 'Pyrkeep'. The upper side of the leaf blade of 'UCONNBD610' is medium green while that of 'UCONNBD599' is dark green. The inflorescence of 'UCONNBD610' is larger than that of 'Pyrkeep' and shorter than that of 'UCONNBD599'. The inner side of the corolla lobe of 'UCONNBD610' is violet with blue violet along the margin whereas the corolla lobe of 'Pyrkeep' is darker violet with darker blue violet along the margin and that of 'UCONNBD599' is light blue violet throughout.*

Description:

PLANT: semi-upright to spreading growth habit, broader than tall, flowering begins mid-season

STEM: red and green, strongly angular in cross-section, dense pubescence

LEAF BLADE: lanceolate, medium green on upper side, no variegation, sinuate and crenate margin, absent or very sparse pubescence on upper side, very dense pubescence on lower side, weak bulging between veins

INFLORESCENCE: conical, dense to very dense flowers

CALYX: medium length, dense to very dense pubescence

COROLLA LOBE: semi-erect to horizontal attitude at full flowering, non-touching arrangement, medium depth margin incisions, inner side violet (RHS N80B) with blue violet (RHS 90C) along margin, orange red (RHS 28A, N25A) eye

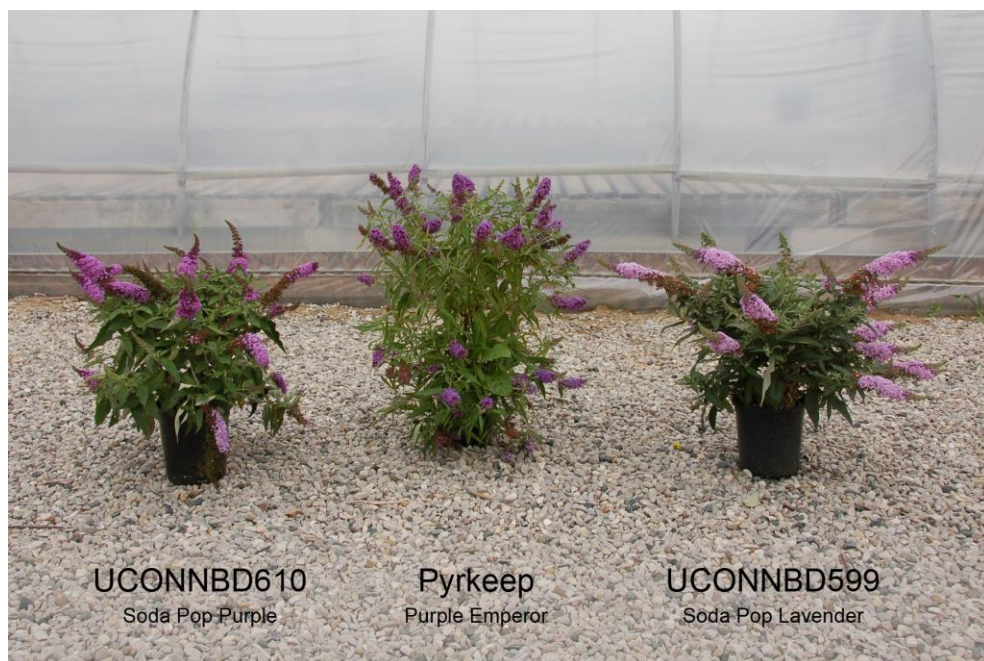
Origin and Breeding: 'UCONNBD610' originated from a controlled cross conducted in Storrs, Connecticut, USA by breeders, Dr. Mark Henry Brand, an employee of the University of Connecticut, and William Addison Smith, a former student at the University of Connecticut. In July 2008, the cross was made between the *Buddleja davidii* varieties 'Royal Red' (female parent) and 'UConn dwf-01' (male parent). 'UCONNBD610' was selected in July 2010 based on its compact and dense plant growth habit, thick stems with short internodes, wide textured leaves, numerous panicles and cold temperature hardiness. Asexual propagation was first conducted by softwood cuttings in July 2010 in Storrs, Connecticut, USA.

Tests and Trials: The comparative trial for 'UCONNBD610' was conducted in a polyhouse during the spring and summer of 2018, at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 12 plants each of the candidate and reference varieties. All plants were grown from 10 cm rooted liners and transplanted into 9 litre containers on July 19, 2016. Observations and measurements were taken from 10 plants, or 10 parts of plants, of each variety on July 26, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

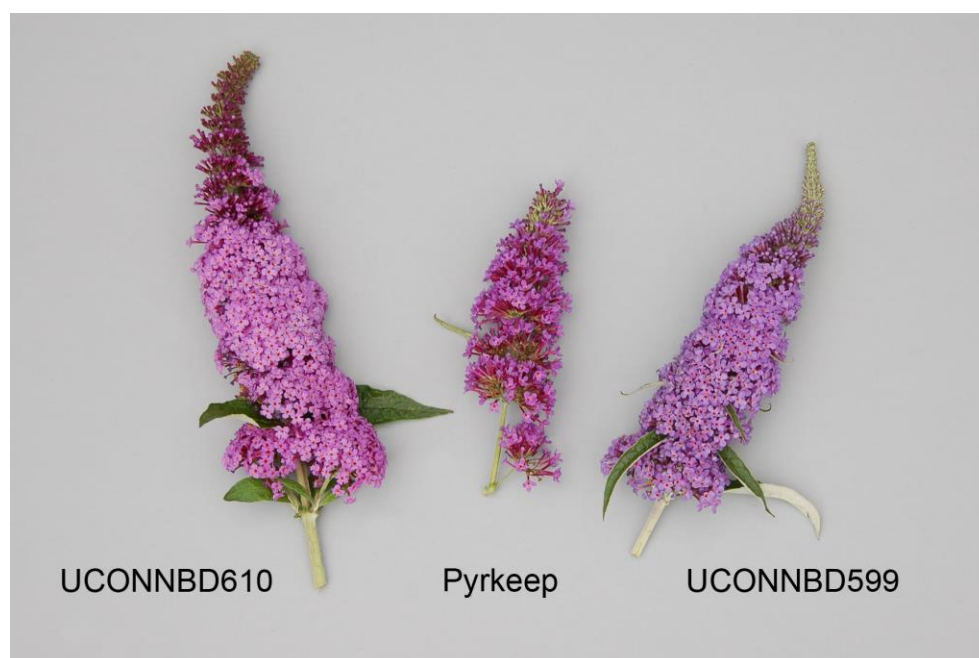
Comparison table for 'UCONNBD610'

	'UCONNBD610'	'Pyrkeep'*	'UCONNBD599'*
<i>Leaf blade width (cm)</i>			
mean	4.6	2.8	4.2
std. deviation	0.45	0.41	0.20
<i>Inflorescence length (cm)</i>			
mean	29.9	20.9	36.2
std. deviation	3.05	2.04	3.92
<i>Inflorescence width (cm)</i>			
mean	5.4	4.0	5.5
std. deviation	0.39	0.22	1.18
<i>Colour of corolla lobe (RHS)</i>			
inner side	N80B with 90C along margin	N81B with 90B along margin	76A

*reference varieties



Butterfly Bush: 'UCONNBD610' (left) with reference varieties 'Pyrkeep' (centre) and 'UCONNBD599' (right)



Butterfly Bush: 'UCONNBD610' (left) with reference varieties 'Pyrkeep' (centre) and 'UCONNBD599' (right)
