



## APPLICATIONS UNDER EXAMINATION

## BUTTERFLY BUSH

### BUTTERFLY BUSH (*Buddleja*)

**Proposed denomination:** 'SMNBDD'  
**Trade name:** Lo & Behold Ruby Chip  
**Application number:** 20-10209  
**Application date:** 2020/05/13  
**Applicant:** Spring Meadow Nursery, Inc., Grand Haven, Michigan, United States of America  
**Agent in Canada:** BioFlora Inc., St. Thomas, Ontario  
**Breeder:** Megan Mathey, Holland, Michigan, United States of America

**Variety used for comparison:** Pink Micro Chip

**Summary:** *The plants of 'SMNBDD' have an upright growth habit and are taller than those of 'Pink Micro Chip' which are semi-upright to spreading and shorter. The plants of 'SMNBDD' are taller than broad whereas those of 'Pink Micro Chip' are broader than tall. The leaf blades of 'SMNBDD' are larger than those of 'Pink Micro Chip'. The inflorescence of 'SMNBDD' is wider than that of 'Pink Micro Chip'. The flower bud of 'SMNBDD' is dark purple whereas that of 'Pink Micro Chip' is light violet and white. The corolla lobes of 'SMNBDD' are free with absent or shallow margin incisions whereas those of 'Pink Micro Chip' are overlapping with deep margin incisions. The inner side of the corolla lobe of 'SMNBDD' is dark purple whereas that of 'Pink Micro Chip' is dark blue pink. The outer side of the corolla tube of 'SMNBDD' is dark purple whereas that of 'Pink Micro Chip' is medium purple red.*

#### **Description:**

PLANT: upright growth habit, taller than broad

SHOOT: green

STEM: moderately angular in cross-section, dense pubescence

LEAF BLADE: medium ovate, no variegation, medium green on upper side, dentate margin, medium pubescence density on upper side, pubescence present on lower side, absent or weak bulging between veins

TIME OF FLOWERING: begins mid to late season

FLOWER BUD: dark purple (RHS N79C)

INFLORESCENCE: conical shape, medium dense flowers

CALYX: medium length, medium density of pubescence

COROLLA LOBE: semi-erect to horizontal attitude at full flowering, free arrangement, absent or shallow margin incisions, inner side dark purple (closest to RHS 72A)

COROLLA EYE: absent

COROLLA TUBE: outer side dark purple (closest to RHS 61A)

**Origin and Breeding:** 'SMNBDD' originated from a cross conducted by the breeder in July of 2015, in Grand Haven, Michigan, USA. The cross was made between the female parent variety 'Lilac Chip' and the male parent variety 'Miss Molly'. The new variety was selected as a single plant from the resulting progeny in the summer of 2017 based on its growth habit, plant vigour, flower size and flower colour. Asexual reproduction of 'SMNBDD' was first conducted by softwood cuttings in 2017, in Grand Haven, Michigan, USA.

**Tests and Trials:** The comparative trial for 'SMNBDD' was conducted in a polyhouse during the spring and summer of 2022 at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 10 plants each of the candidate and reference variety. All plants were grown from 5.7 cm rooted liners and transplanted into 7.8 litre containers in July of 2021. Observations and measurements were taken from 10 plants or parts of 10 plants of each variety on June 15, 2022. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart. Mean differences were significant at the 5% confidence probability level based on a paired Student's t-test.

Comparison table for 'SMNBDD'

	'SMNBDD'	Pink Micro Chip*
<i>Plant height (cm)</i>		
mean	67.1	42.9
std. deviation	4.25	12.6
<i>Leaf blade length (cm)</i>		
mean	11.0	8.1
std. deviation	0.64	0.63
<i>Leaf blade width (cm)</i>		
mean	4.6	3.3
std. deviation	0.35	0.16
<i>Inflorescence width (cm)</i>		
mean	4.7	3.1
std. deviation	0.32	0.18
<i>Colour of flower bud (RHS)</i>		
main	N79C	75A-B with NN155A
<i>Colour of corolla lobe (RHS)</i>		
inner side	closest to 72A	N74D
<i>Colour of corolla tube (RHS)</i>		
outer side	closest to 61A	N57A

\*reference variety



Butterfly Bush: 'SMNBDD' (left) with reference variety 'Pink Micro Chip' (right)



Butterfly Bush: 'SMNBDD' (left) with reference variety 'Pink Micro Chip' (right)



Butterfly Bush: 'SMNBDD' (left) with reference variety 'Pink Micro Chip' (right)