HEAVENLY BAMBOO
(Nandina domestica)

Proposed denomination:	**'Nansid11'**
Trade name:	Goldstream
Application number:	21-10461
Application date:	2021/04/15
Applicant:	Gurjit Sidhu, Mission, British Columbia
Breeder:	Gurjit Sidhu, Mission, British Columbia

Variety used for comparison: 'Gulfstream'

Summary: *The branching density of the plants of 'Nansid11' is medium whereas it is dense for the plants of 'Gulfstream'. The plants of 'Nansid11' have fewer basal shoots than those of 'Gulfstream'. The leaf of 'Nansid11' is longer than that of 'Gulfstream'. The leaflet blade of 'Nansid11' is larger than that of 'Gulfstream'. In early spring, the upper side of the newly opened leaflet blade of 'Nansid11' is medium brown and light brown whereas that of 'Gulfstream' is orange red and brown red. In early spring, the upper side of the fully opened leaflet blade of 'Nansid11' is medium yellow green with brown red at the margins and apex whereas that of 'Gulfstream' is light green. In fall to winter, the upper side of the mature leaflet blade of 'Nansid11' is mainly red pink with tones of light red pink and with some leaflets light yellow to light yellow orange whereas that of 'Gulfstream' is brown red with some leaflets light green to light yellow. In summer, the lower side of the mature leaflet blade of 'Nansid11' is medium brown green whereas that of 'Gulfstream' is dark green. In fall/winter, the lower side of the mature leaflet blade of 'Nansid11' is red pink whereas that of 'Gulfstream' is pink.*

Description:
PLANT: shrub, globose to oblate, bushy growth habit, medium branching density
STEM: dark red to purple brown, absent or very sparse pubescence, round in cross-section, smooth bark, strong glaucosity, medium number of lenticels, no thorns

LEAF: pinnately compound, alternate arrangement on stem
LEAFLET BLADE: lanceolate to elliptic, acuminate apex, attenuate base, entire margin, no lobing, absent or very sparse pubescence on upper and lower sides, no variegation, weak rugosity, weak undulation of margin
LEAFLET BLADE (NEWLY OPENED IN EARLY SPRING): upper side medium brown (RHS 166B,C) and light brown (RHS 166D), lower side medium brown (RHS 177D)
LEAFLET BLADE (FULLY OPENED IN EARLY SPRING): upper side medium yellow green (more green than RHS 151D) with brown red (RHS 181D) margins and apex, lower side medium brown green (lighter and more yellow than RHS N148D) with brown red (RHS 181D) margins and apex
LEAFLET BLADE (MATURE IN SUMMER): upper side medium brown green (RHS 138A), lower side medium brown green (RHS 138B)
LEAFLET BLADE (MATURE IN FALL/WINTER): upper side mainly red pink (RHS 48A-B) with tones of light red pink (RHS 49B) and some leaflets light yellow to light yellow orange (RHS 11C-D), lower side red pink (closest to RHS 51B)
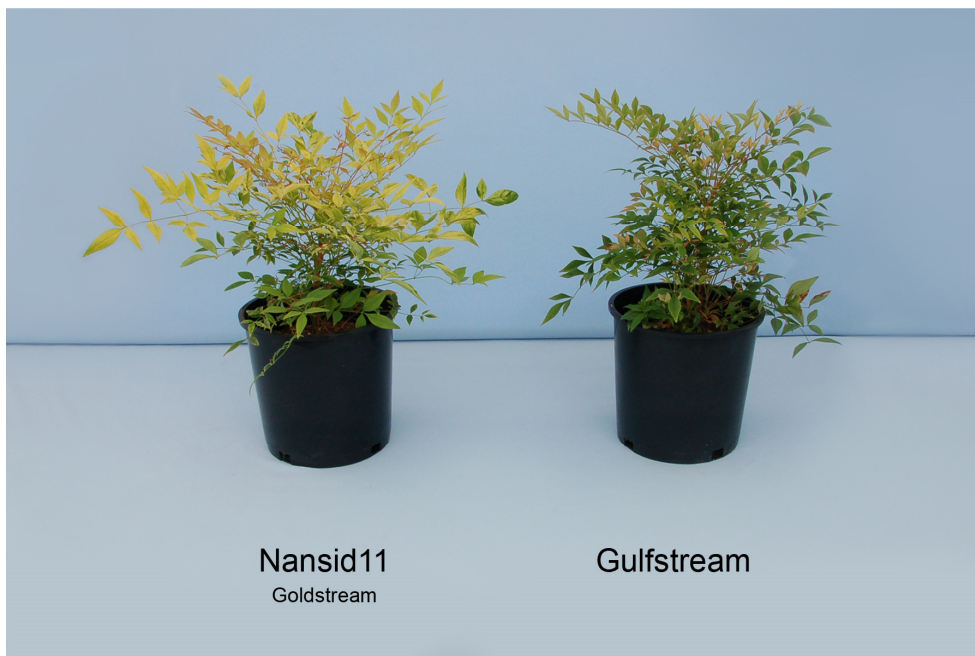PETIOLE: present

Origin and Breeding: 'NanSid11' originated from a naturally occurring mutation of the *Nandina domestica* variety 'Gulfstream', discovered in a block of container grown plants in Mission, British Columbia, in the spring of 2016. The new variety was selected based on the colour of the new growth. Asexual reproduction of 'NanSid11' was first conducted by tissue culture in the spring of 2017, in Mission, British Columbia.

Tests and Trials: The comparative trial for 'NanSid11' was conducted in an outdoor container trial during the summer of 2021, at Bioflora Inc., in St. Thomas, Ontario. The trial included a total of 10 shrubs each of the candidate and reference variety. All shrubs were grown from cuttings that were rooted in the early spring of 2021. Observations and measurements were taken from 10 plants or parts of plants in the spring and summer of 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.
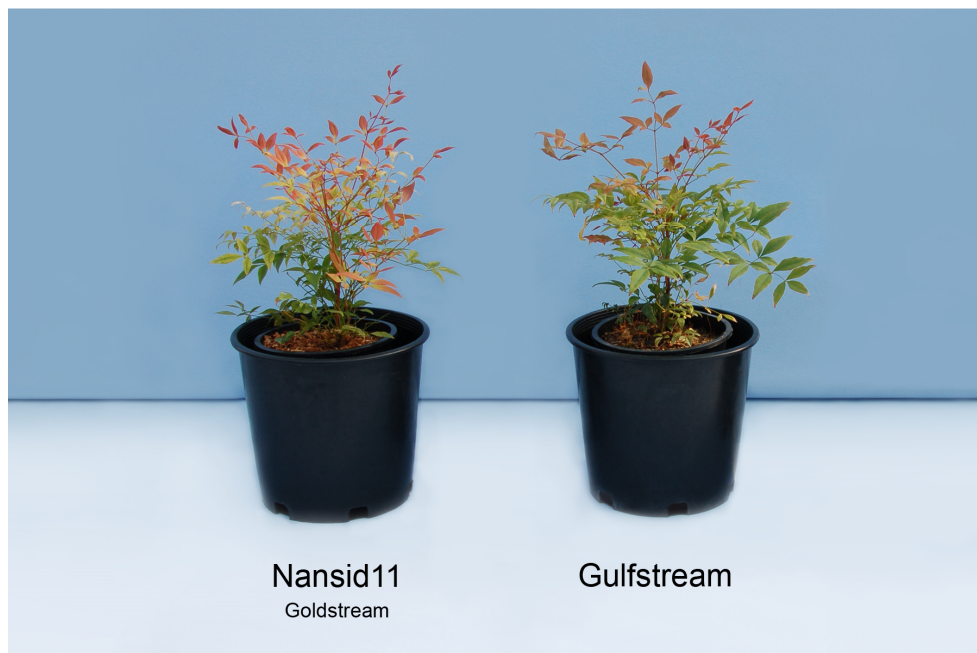
Comparison table for 'Nansid11'

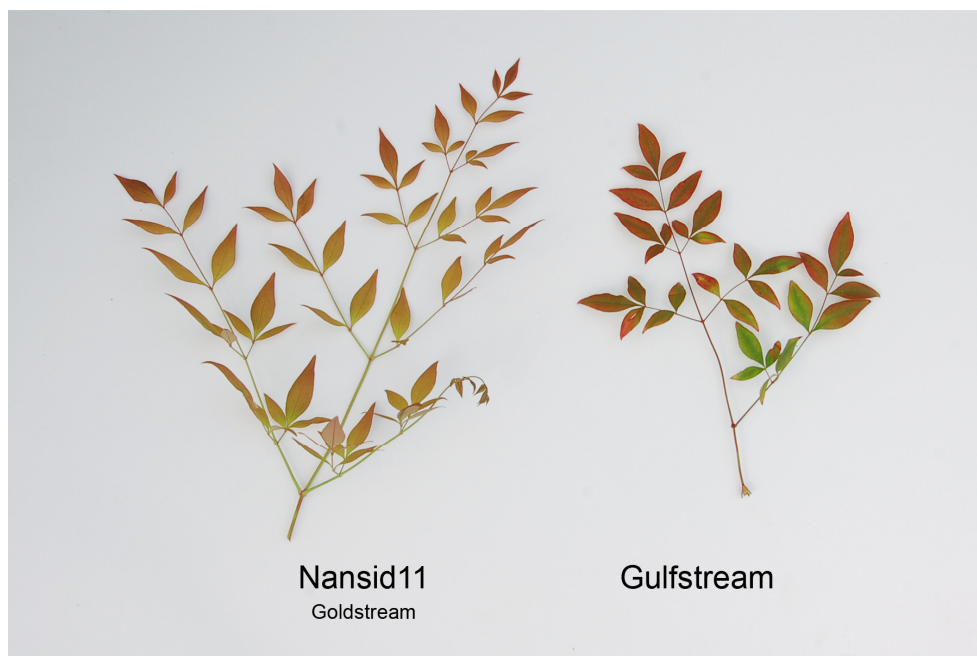|	'Nansid11'	'Gulfstream'*
Number of basal shoots		
mean	4.4	7.7
std. deviation	0.96	1.41
Leaf length (cm)		
mean	30.4	23.6
std. deviation	2.81	2.43
Leaflet blade length (cm)		
mean	5.9	4.1
std. deviation	0.83	0.82
Leaflet blade width (cm)		
mean	2.1	1.3
std. deviation	0.44	0.26
Colour of upper side of leaflet blade (RHS)		
newly opened-early spring	166B,C,D	35A, 179B
fully opened-spring	more green than 151D, with 181D margins and apex	144B
mature-fall/winter	48A-B, with tones close to 49B and some that are 11C-D	180A and some close to 145B-C and 4D
Colour of lower side of leaflet blade (RHS)		
mature-summer	138B	NN137B
mature-fall/winter	closest to 51B	48C

*reference variety

Heavenly Bamboo: 'Nansid11' (left) with reference variety 'Gulfstream' (right)

Heavenly Bamboo: 'Nansid11' (left) with reference variety 'Gulfstream' (right)

Heavenly Bamboo: 'Nansid11' (left) with reference variety 'Gulfstream' (right)