



APPLICATIONS UNDER EXAMINATION

MANDEVILLA

MANDEVILLA
(*Mandevilla sanderi*)

Proposed denomination: 'MANZ0001'
Trade name: Madinia Coral Pink
Application number: 15-8597
Application date: 2015/04/10
Applicant: Syngenta Participations AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Birgit Hofmann, InnovaPlant Zierpflanzen GmbH & Co. KG, Germany

Varieties used for comparison: 'Fisrix Pinka' (Rio Pink) and 'Fisrix Hopink' (Rio Hot Pink)

Summary: *The plants of 'MANZ0001' have medium vigour while the plants of 'Fisrix Pinka' have strong vigour. The stem of 'MANZ0001' has a longer internode than that of both reference varieties. The leaf of 'MANZ0001' is wider than the leaf of 'Fisrix Pinka' and longer than the leaf of 'Fisrix Hopink'. The pedicel of 'MANZ0001' is shorter than that of 'Fisrix Hopink'. The flower bud of 'MANZ0001' is dark purple red while the bud of 'Fisrix Pinka' is purple red underlaid with lighter purple red tones and that of 'Fisrix Hopink' is darker purple red. The corolla of 'MANZ0001' is larger in diameter than the corolla of both reference varieties. When fully opened, the main colour of the inner side of the corolla lobe of 'MANZ0001' is purple red whereas the inner side of the corolla lobe of 'Fisrix Pinka' is lighter purple red and that of 'Fisrix Hopink' is purple red with darker purple red at the tips. When aged, the main colour of the inner side of the corolla lobe of 'MANZ0001' is purple red with light blue pink tones whereas the inner side of the corolla lobe of 'Fisrix Pinka' is lighter purple red with blue pink to light blue pink tones. The basal half of the outer side of the corolla throat of 'MANZ0001' is yellow green whereas it is white for 'Fisrix Hopink'. The distal half of the outer side of the corolla throat of 'MANZ0001' is purple red whereas it is blue pink for 'Fisrix Pinka' and dark purple red for 'Fisrix Hopink'. The basal half of the inner side of the corolla throat of 'MANZ0001' is orange whereas it is yellow orange with yellow to light yellow tones for 'Fisrix Pinka' and orange red to orange brown for 'Fisrix Hopink'. The distal half of the inner side of the corolla throat of 'MANZ0001' is purple red whereas it is lighter purple red for 'Fisrix Pinka' and lighter purple red with dark purple red for 'Fisrix Hopink'.*

Description:

PLANT: upright to trailing growth habit, medium vigour, medium to dense, absent or few climbing tendrils

YOUNG STEM: light to medium green, no anthocyanin colouration

STEM: no pubescence

PETIOLE: light green, absent or very weak intensity of anthocyanin colouration, no pubescence

LEAF BLADE: opposite arrangement, medium length to width ratio, position of broadest part at middle, cuspidate and acute apex, rounded to cordate base, straight in cross-section at midpoint, weak undulation of margin

LEAF BLADE (UPPER SIDE): dark green, medium degree of glossiness, absent or very weak bulging between veins, no pubescence

LEAF BLADE (LOWER SIDE): medium green, no pubescence

PEDICEL: light green, absent or weak intensity of anthocyanin colouration, no pubescence

CALYX: light green on basal half, mostly light green on distal half with light red at sepal tip

FLOWER BUD: trullate shape, dark purple red (RHS 53B)

FLOWER: single type

COROLLA LOBE: strongly asymmetric, acute apex, medium recurving of margin with strong recurving occurring with age, weak to medium undulation of margin, inner side is purple red (RHS 58B) when fully opened and lighter purple red (RHS 58C) with light blue pink (RHS 73C) when aged, distal part is concave to straight in longitudinal section

COROLLA THROAT: funnel-shaped to campanulate

COROLLA THROAT (OUTER SIDE): yellow green (RHS 150D) at basal half, purple red (RHS 58B) at distal half

COROLLA THROAT (INNER SIDE): orange (RHS 24A-B) at basal half, purple red (RHS N57A) at distal half

COROLLA TUBE: outer side is light green (RHS 145B), absent to weak intensity of anthocyanin colouration

FILAMENT: yellowish white

ANTHER: light yellow

OVARY: light green

Origin and Breeding: ‘MANZ0001’ originated from a controlled cross conducted in the summer of 2007 in Hillscheid, Germany, between the female parent variety ‘K05-2008-2’ and the male parent variety ‘K04-1263-77’. The new variety was bred and developed by the breeder Birgit Hofmann, of Ruedesheim, Germany. In July 2010, the new variety ‘MANZ0001’ was selected as a single seedling from the resulting progeny of the above-stated cross in Gilroy, California, U.S.A. based on its flower colour, flower size, plant branching and foliage quality. ‘MANZ0001’ was first asexually reproduced by cuttings in August 2010 in Gilroy, California, U.S.A.

Tests and Trials: The comparative trial for ‘MANZ0001’ was conducted in a polyhouse during the summer of 2018 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on May 25, 2018. Observations and measurements were taken from 10 plants, or parts of plants, of each variety on August 17, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘MANZ0001’

	‘MANZ0001’	‘Fisrix Pinka’*	‘Fisrix Hopink’*
<i>Stem internode length (cm)</i>			
mean	2.9	1.7	2.0
std. deviation	0.42	0.20	0.34
<i>Leaf blade length (cm)</i>			
mean	9.1	8.5	7.1
std. deviation	0.81	0.50	0.45
<i>Leaf blade width (cm)</i>			
mean	5.8	5.1	5.4
std. deviation	0.51	0.22	0.35
<i>Pedicle length (cm)</i>			
mean	1.8	2.1	2.4
std. deviation	0.2	0.35	0.24
<i>Colour of flower bud (RHS)</i>			
outer side	53B	N57A underlaid with N57D	53A
<i>Corolla diameter (cm)</i>			
mean	9.8	9.1	9.2
std. deviation	0.41	0.29	0.25
<i>Colour of inner side of corolla lobe (RHS)</i>			
fully opened	58B	N57C-D	N57C-D with N57A at tips
aged	58C with 73C	N57D with 65A-B	N/A
<i>Colour of corolla throat (RHS)</i>			
outer side- basal half	150D	150D developing into 4D	NN155A
outer side- distal half	58B	65A	53B
inner side- basal half	24A-B	15A with 8A-B	31A-B
inner side- distal half	N57A	N57C-D	60A

*reference varieties



Mandevilla: 'MANZ0001' (left) with reference varieties 'Fisrix Pinka' (centre) and 'Fisrix Hopink' (right)



Mandevilla: 'MANZ0001' (left) with reference varieties 'Fisrix Pinka' (centre) and 'Fisrix Hopink' (right)



Mandevilla: 'MANZ0001' (left) with reference varieties 'Fisrix Pinka' (centre) and 'Fisrix Hopink' (right)

Proposed denomination: 'MANZ0002'
Trade name: Madinia Maximo Red
Application number: 15-8598
Application date: 2015/04/10
Applicant: Syngenta Participations AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Birgit Hofmann, InnovaPlant Zierpflanzen GmbH & Co. KG, Germany

Variety used for comparison: 'Fisrix Dered' (Rio Deep Red)

Summary: *The stem of 'MANZ0002' has a longer internode than that of 'Fisrix Dered'. The petiole of 'MANZ0002' has no anthocyanin colouration while the petiole of 'Fisrix Dered' has a medium to strong intensity of anthocyanin colouration. The pedicel of 'MANZ0002' is longer than that of 'Fisrix Dered'. The main colour of the inner side of the corolla lobe of 'MANZ0002' is dark purple red whereas the inner side of the corolla lobe of 'Fisrix Dered' is dark purple red aging to lighter purple red. The basal half of the outer side of the corolla throat of 'MANZ0002' is white whereas it is yellow green for 'Fisrix Dered'. The distal half of the outer side of the corolla throat of 'MANZ0002' is dark purple red whereas it is purple red to blue pink for 'Fisrix Dered'. The outer side of the corolla tube of 'MANZ0002' is yellow green while that of 'Fisrix Dered' is dark pink red with undertones of yellow green.*

Description:

PLANT: upright to trailing growth habit, strong vigour, medium density

YOUNG STEM: light green, no anthocyanin colouration

TENDRILS: few, weak intensity of anthocyanin colouration

STEM: no pubescence

PETIOLE: dark green, no anthocyanin colouration, no pubescence

LEAF BLADE: opposite arrangement, medium length to width ratio, position of broadest part between apex and middle, acuminate apex, rounded base, straight in cross-section at midpoint, no undulation of margin

LEAF BLADE (UPPER SIDE): dark green, medium degree of glossiness, absent or very weak bulging between veins, no pubescence

LEAF BLADE (LOWER SIDE): light to medium green, no pubescence

PEDICEL: light green, no anthocyanin colouration, no pubescence

CALYX: light green on basal half, mostly light green on distal half with light red at tips only

FLOWER BUD: trullate shape, dark purple red (RHS 46A) with darker purple red (RHS 187B) at tip along edges

FLOWER: single type

COROLLA LOBE: strongly asymmetric, acuminate apex, medium recurving of margin with strong recurving occurring with age, medium undulation of margin, inner side is dark purple red (RHS 185A), distal part is concave in longitudinal section

COROLLA THROAT: funnel-shaped

COROLLA THROAT (OUTER SIDE): white (RHS NN155A) at basal half, dark purple red (RHS 60A) at distal half

COROLLA THROAT (INNER SIDE): orange (RHS 28B, 26A) at basal half, dark purple red (RHS 185A, 46A) at distal half

COROLLA TUBE: outer side is yellow green (RHS 1D), absent to weak intensity of anthocyanin colouration

FILAMENT: yellowish white

ANTHER: light yellow

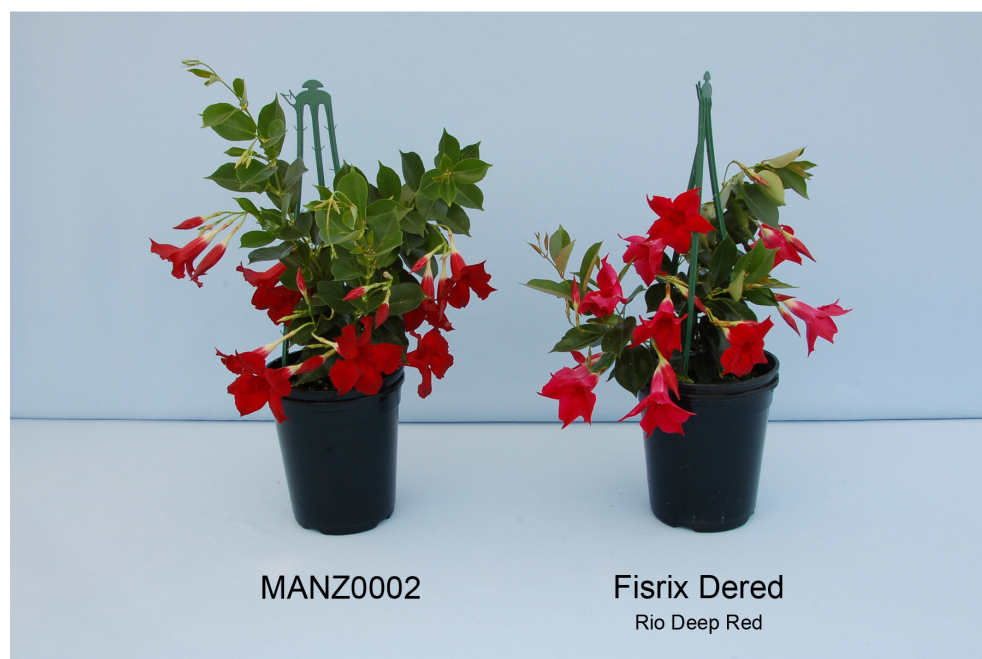
OVARY: light green

Origin and Breeding: ‘MANZ0002’ originated from a controlled cross conducted in the summer of 2007 in Hilscheid, Germany, between the female parent variety ‘Fisrix Whit’ and the male parent variety ‘K04-1263-32’. The new variety was bred and developed by the breeder Birgit Hofmann, of Ruedesheim, Germany. In December 2010, the new variety ‘MANZ0002’ was selected as a single seedling from the resulting progeny of the above-stated cross in Gilroy, California, U.S.A. based on its plant growth habit, flower colour, flower size and foliage quality. ‘MANZ0002’ was first asexually reproduced by cuttings in January 2011 in Gilroy, California, U.S.A.

Tests and Trials: The comparative trial for ‘MANZ0002’ was conducted in a polyhouse during the summer of 2018 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on May 25, 2018. Observations and measurements were taken from 10 plants, or parts of plants, of each variety on August 17, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘MANZ0002’

	‘MANZ0002’	‘Fisrix Dered’*
<i>Stem internode length (cm)</i>		
mean	3.0	2.2
std. deviation	0.57	0.35
<i>Pedicel length (cm)</i>		
mean	3.2	2.5
std. deviation	0.34	0.37
<i>Colour of corolla lobe (RHS)</i>		
inner side	185A	53A aging to N57A
<i>Colour of corolla throat (RHS)</i>		
outer side- basal half	NN155A	150D
outer side- distal half	60A	63A-B
<i>Colour of corolla tube (RHS)</i>		
outer side	1D	47C with undertones of 1C-D
*reference variety		



Mandevilla: 'MANZ0002' (left) with reference variety 'Fisix Dered' (right)



Mandevilla: 'MANZ0002' (left) with reference variety 'Fisix Dered' (right)



Mandevilla: 'MANZ0002' (left) with reference variety 'Fisrix Dered' (right)

Proposed denomination: 'MANZ0003'
Trade name: Madinia Maximo Light Pink
Application number: 15-8599
Application date: 2015/04/10
Applicant: Syngenta Participations AG, Basel, Switzerland
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Birgit Hofmann, InnovaPlant Zierpflanzen GmbH & Co. KG, Germany

Variety used for comparison: 'Fisrix Pinka' (Rio Pink)

Summary: *The stem of 'MANZ0003' has a longer internode than the stem of 'Fisrix Pinka'. The leaf apex of 'MANZ0003' is acuminate while it is cuspidate and acute for 'Fisrix Pinka'. The corolla of 'MANZ0003' is larger in diameter than the corolla of 'Fisrix Pinka'. When fully opened, the main colour of the inner side of the corolla lobe of 'MANZ0003' is purple red with darker purple red at the tip whereas the inner side of the corolla lobe of 'Fisrix Pinka' is darker purple red. When aged, the main colour of the inner side of the corolla lobe of 'MANZ0003' is light blue pink whereas the inner side of the corolla lobe of 'Fisrix Pinka' is purple red with blue pink to light blue pink tones. The corolla tube of 'MANZ0003' is longer than the corolla tube of 'Fisrix Pinka'.*

Description:

PLANT: trailing growth habit, strong vigour, medium density

YOUNG STEM: light green, no anthocyanin colouration

TENDRILS: medium number, absent to weak intensity of anthocyanin colouration

STEM: no pubescence

PETIOLE: light green, absent or very weak intensity of anthocyanin colouration, no pubescence

LEAF BLADE: opposite arrangement, medium length to width ratio, position of broadest part at middle, acuminate apex, rounded to cordate base, straight in cross-section at midpoint, absent or very weak undulation of margin

LEAF BLADE (UPPER SIDE): dark green, medium to strong degree of glossiness, absent or very weak bulging between veins, no pubescence

LEAF BLADE (LOWER SIDE): medium green, no pubescence

PEDICEL: light green, absent or weak intensity of anthocyanin colouration, no pubescence

CALYX: light green on basal half, light green on distal half with light red at tips only

FLOWER BUD: trullate shape, purple red (RHS 58B-D)

FLOWER: single type

COROLLA LOBE: strongly asymmetric, acuminate to acute apex, medium recurving of margin with strong recurving occurring with age, medium to strong undulation of margin, inner side is purple red (RHS N57C-D) with darker purple red (RHS N57A) tip when fully opened and light blue pink (RHS 69A-B) when aged, distal part is concave in longitudinal section

COROLLA THROAT: funnel-shaped

COROLLA THROAT (OUTER SIDE): yellow green (RHS 150D) at basal half, blue pink (RHS 65A) at distal half

COROLLA THROAT (INNER SIDE): yellow orange (RHS 13B) and yellow (close to RHS 7B) at basal half, purple red (RHS N57C-D) at distal half

COROLLA TUBE: outer side is light green (RHS 145C), absent to weak intensity of anthocyanin colouration

FILAMENT: yellowish white

ANTHER: light yellow

OVARY: light green

Origin and Breeding: ‘MANZ0003’ originated from a controlled cross conducted in the summer of 2007 in Hilscheid, Germany, between the female parent variety ‘Fisrix Whit’ and the male parent variety ‘K04-1263-32’. The new variety was bred and developed by the breeder Birgit Hofmann, of Ruedesheim, Germany. In December 2010, the new variety ‘MANZ0003’ was selected as a single seedling from the resulting progeny of the above-stated cross in Gilroy, California, U.S.A. based on its plant growth habit, flower colour, flower size and foliage quality. ‘MANZ0003’ was first asexually reproduced by cuttings in January 2011 in Gilroy, California, U.S.A.

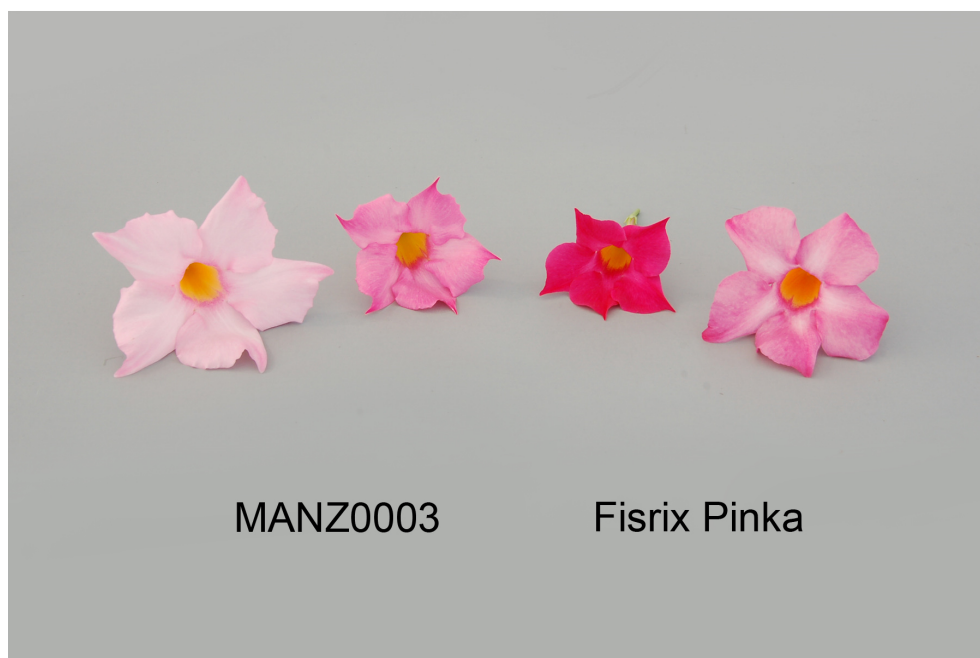
Tests and Trials: The comparative trial for ‘MANZ0003’ was conducted in a polyhouse during the summer of 2018 at BioFlora Inc. in St. Thomas, Ontario. The trial included a total of 15 plants each of the candidate and reference variety. All plants were grown from rooted cuttings and transplanted into 15 cm pots on May 25, 2018. Observations and measurements were taken from 10 plants, or parts of plants, of each variety on August 17, 2018. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for ‘MANZ0003’

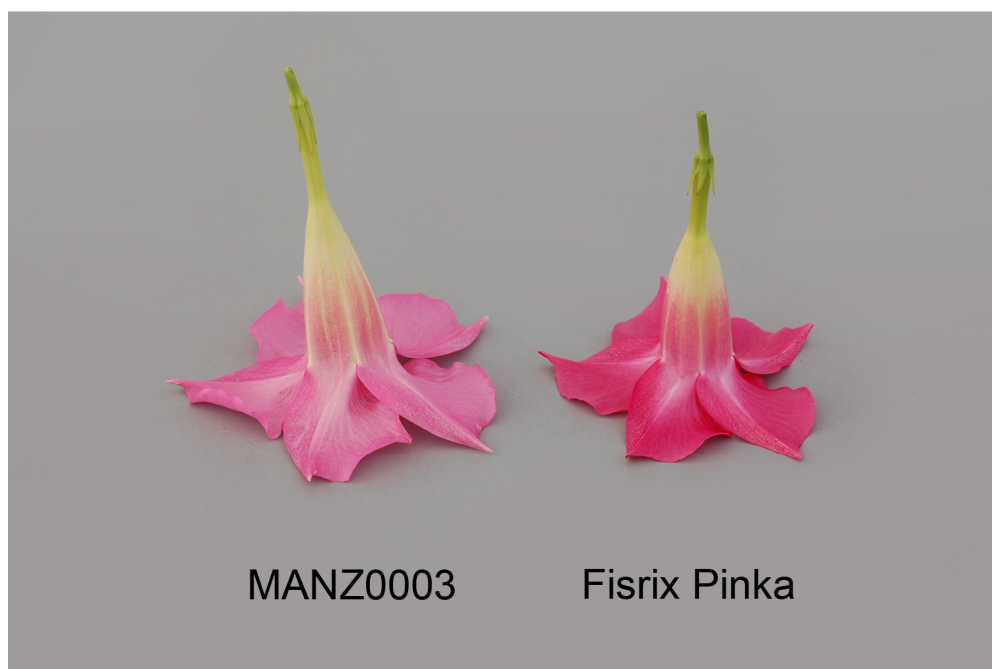
	‘MANZ0003’	‘Fisrix Pinka’*
<i>Stem internode length (cm)</i>		
mean	2.4	1.7
std. deviation	0.40	0.20
<i>Corolla diameter (cm)</i>		
mean	10.4	9.1
std. deviation	0.49	0.29
<i>Colour of inner side of corolla lobe (RHS)</i>		
fully opened	N57C-D with N57A tip	N57A-B
aged	69A-B	N57D with 65A-B
<i>Corolla tube length (cm)</i>		
mean	2.4	2.1
std. deviation	0.07	0.11
*reference variety		



Mandevilla: 'MANZ0003' (left) with reference variety 'Fisrix Pinka' (right)



Mandevilla: 'MANZ0003' (left) with reference variety 'Fisrix Pinka' (right)



Mandevilla: 'MANZ0003' (left) with reference variety 'Fisrix Pinka' (right)
