



APPLICATIONS UNDER EXAMINATION

HELIOTROPE

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(Heliotropium arborescens)

Proposed denomination: 'KLEHA07520'
Trade name: Marino Blue
Application number: 07-5855
Application date: 2007/04/11
Applicant: Nils Klemm, Stuttgart, Germany
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Nils Klemm, Stuttgart, Germany

Varieties used for comparison: 'Klehelio' (Marino 2000) and 'Atlanta' (Atlantis)

Summary: 'KLEHA07520' has a shorter plant height than 'Klehelio' and a taller plant height than 'Atlanta'. 'KLEHA07520' has a longer leaf blade than 'Klehelio'. 'KLEHA07520' has a larger inflorescence diameter than 'Atlanta'. 'KLEHA07520' differs slightly from the reference varieties in the colour of the upper surface of the corolla.

Description:

PLANT: upright bushy growth habit, medium degree of branching

STEM: medium green to green brown, weak anthocyanin colouration, dense pubescence, medium thickness, smooth shape

LEAF: alternate arrangement, simple, elliptic to ovate, acute apex, cuneate base, entire margin, sparse pubescence on upper and lower side, upper side medium green, lower side light green

PEDUNCLE: medium pubescence

INFLORESCENCE: cyme, terminal and axillary, erect attitude, dense

COROLLA: lobes fused at base, 4-5 small lobes, salverform shape, weak to medium undulation of margin, weak recurvature of margin, absent to very sparse pubescence at throat, upper side violet (RHS N82B), upper side of throat white and yellow, lower side of corolla violet (RHS N82C)

Origin and Breeding: 'KLEHA07520' originated from a controlled open pollination conducted in July 2002 in Stuttgart, Germany. The pollination was between the female parent, a proprietary seedling designated V 015 and an unknown male parent. In June 2003, 4500 seedlings were selected one of which would be designated as 'KLEHA07520'. Selection criteria included growth habit, fragrance, leaf colour and flower colour. The seedlings were evaluated in greenhouse trials in Stuttgart and assessed for growth habit, flower quality and flowering time. Outdoor performance trials were also conducted to assess growth habit and heat and weather tolerance.

Tests and Trials: Trials for 'KLEHA07520' were conducted in a polyhouse during the summer of 2009 in St. Thomas, Ontario. The trial included 15 plants each of the candidate and reference varieties. All plants were grown from rooted cuttings and transplanted into 15 cm pots on April 29, 2009. Observations and measurements were taken from 10 plants of each variety on June 16, 2009. All colour determinations were made using the 2001 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'KLEHA07520'

	'KLEHA07520'	'Klehelio'*	'Atlanta'*
<i>Plant height (cm)</i>			
mean	22.7	30.1	17.6
std. deviation	3.21	3.38	1.95
<i>Leaf blade length (cm)</i>			
mean	8.2	5.9	7.5
std. deviation	0.55	0.66	0.75

Inflorescence diameter (cm)

mean	11.3	12.5	7.7
std. deviation	1.83	1.38	0.87

Colour of corolla (RHS)

upper side	N82B	N81A	N82C
lower side	N82C	N81C	N82C

*reference varieties



Heliotrope: 'KLEHA07520' (left) with reference varieties 'Klehelio' (centre) and 'Atlanta' (right)



Heliotrope: 'KLEHA07520' (left) with reference varieties 'Klehelio' (centre) and 'Atlanta' (right)
