Canadian Food Inspection Agency / Agence canadienne d'inspection des aliments

BEAN
(Phaseolus vulgaris)

Proposed denomination:	**'Octane'**
Application number:	08-6313
Application date:	2008/04/25
Applicant:	Globe Seeds B.V., Vlijmen, The Netherlands
Agent in Canada:	Terramax Holdings Corporation, Qu'Appelle, Saskatchewan
Breeder:	HA van Mierlo, Globe Seeds B.V., Vlijmen, The Netherlands

Variety used for comparison: 'Envoy'

Summary: *At full flowering, the inflorescence of 'Octane' is located partly in the foliage whereas it is in the foliage on 'Envoy'. 'Octane' is resistant to moderately resistant to Anthracnose race 105 whereas 'Envoy' is susceptible.*

Description:
PLANT: no anthocyanin colouration of hypocotyl, determinate growth habit with strong and erect stem and branches

LEAF: medium green, weak rugosity
SECONDARY LEAFLET: very sparse pubescence on lower side

FLOWER: partly in foliage at full flowering, small bracts, white standard, white wings

POD: light to medium green, no pigmentation, absent to very slight to slight curvature towards dorsal part, pointed tip, weak prominence of grains, smooth surface, distributed scattered on the plant
BEAK: medium length, weak curvature
SEED: narrow elliptic shape of median longitudinal section, elliptic to circular shape in cross section, single coloured, white or greenish, no secondary colouring, weak veining, self-coloured hilar ring, shiny lustre

DISEASE REACTION: resistant to moderately resistant to Anthracnose race 105

Origin and Breeding: 'Octane' was developed from the cross of 'VM1.36' as the female parent and '86.781' as the male parent conducted in November, 1978 in Vlijmen, the Netherlands. It was selected in September, 1995 from single plant selections from the F9 generation and increased from then on. Selection criteria included yield, disease resistance, maturity and stand ability.

Tests and Trials: Trials for 'Octane' were conducted in Qu'appelle, Saskatchewan during the summers of 2006-2008. Plots consisted of three replicates measuring 1.5 metres by 10 metres in length with 20 cm row spacings. Each replicate consisted of 7 rows.

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