



APPLICATIONS UNDER EXAMINATION

KIWIFRUIT

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(*Actinidia chinensis*)

Proposed denomination: 'ZES008'
Application number: 22-10878
Application date: 2022/04/05
Applicant: Zespri Group Limited, Tauranga, New Zealand
Agent in Canada: Osler, Hoskin & Harcourt LLP, Ottawa, Ontario
Breeder: Russell Lowe, Te Puke, New Zealand

Variety used for comparison: 'ZES006'

Summary: *The fruit of 'ZES008' is elliptic whereas the fruit of 'ZES006' is oblong. The fruit of 'ZES008' has a weakly sloping shoulder shape at stalk end whereas 'ZES006' has a truncate shoulder shape at stalk end.*

Description:

PLANT: female, absent self fruit setting, medium vigour, early vegetative bud burst and flowering, very early to early harvest maturity

YOUNG SHOOT: sparse pubescence, absent or very weak intensity of anthocyanin colouration on growing tip

STEM: medium thickness, red brown on sunny side, smooth bark, absent or sparse pubescence, medium sized lenticels, medium prominence of bud support, absent bud cover, strongly depressed leaf scar, lamellate pith

LEAF: medium to large

LEAF BLADE: ovate, medium length to width ratio, acuminate apex, basal lobes lightly apart, no variegation

LEAF BLADE UPPER SIDE: absent or very sparse pubescence, medium intensity of green

LEAF BLADE LOWER SIDE: yellow green

PETIOLE: weak anthocyanin colouration of upper side

INFLORESCENCE: solitary, very few flowers,

FLOWER: medium diameter, concave in profile

SEPAL: many, green main colour, medium density of hairs

PETAL: overlapping arrangement, main colour yellowish white on adaxial side, even distribution of main colour, green second colour on adaxial side

ANTHER: yellow orange

STYLE: medium number, irregular attitude

FRUIT: medium weight, short, narrow to medium width, medium length to width ratio, elliptic shape, oblate in cross section, weakly depressed on style end, medium expressed calyx ring, weakly sloping shoulder at stalk end, high sweetness, medium acidity

STALK: short, medium length relative to length of fruit

FRUIT SKIN: medium conspicuousness of lenticels, medium density of hair, reddish brown hair, weak adherence of hairs, greenish brown

FRUIT FLESH: light green pericarp

FRUIT LOCULES: red purple, strong spread of reddish colour along locules, dark intensity of reddish colour in locules

FRUIT CORE: medium width relative to fruit, oblate shape of core in cross section, white core

Origin and Breeding: 'ZES008' originated from a controlled cross between 'ZES006' and 'CK51_09' conducted at the Te Puke Research Centre, New Zealand in 2005. In July 2011, seedlings (progeny plants) were selected based on sweetness and locule colours. 'ZES008' was selected in 2011 and assessed for uniformity and stability. Plants were analyzed and described during their second and third year of fruiting until 2019.

Tests and Trials: The detailed description of 'ZES008' is based on the UPOV report of Technical Examination, application number 34525, purchased from the New Zealand Intellectual Property Office, Plant Variety Rights, Minister of Business, Innovation and Employment, New Zealand. The test and trials were conducted between 2017 and 2019 at Zespri trial block, Te Puke.



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