



## APPLICATIONS UNDER EXAMINATION

## CUCUMBER

### CUCUMBER (*Cucumis sativus*)

**Proposed denomination:** 'Quatrino'  
**Application number:** 19-10049  
**Application date:** 2019/11/26  
**Applicant:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands  
**Agent in Canada:** Rijk Zwaan Canada Ltd., Leamington, Ontario  
**Breeder:** Rijk Zwaan Zaadteelt en Zaadhandel B.V., De Lier, Netherlands

#### Description:

**PLANT:** produces Beth Alpha type fruit, gynoecious sex expression, predominantly more than five female flowers per node, parthenocarpy present, indeterminate growth type, length of first 15 internodes is very short to short

**COTYLEDON:** no bitterness

**LEAF BLADE:** horizontal attitude, very short to short, small to medium ratio of terminal lobe length in relation to blade length, shape of apex of terminal lobe is obtuse, dark to very dark intensity of green on upper side, very weak to weak degree of blistering, absent or weak undulation of margin, very weak to weak dentation of margin

**TIME OF DEVELOPMENT OF FEMALE FLOWERS (WHEN 80% OF PLANTS HAVE AT LEAST ONE FEMALE FLOWER):** mid-season

**OVARY VESTITURE:** white

**PEDUNCLE:** short

**FRUIT:** very short to short, small diameter, very small to small length to diameter ratio, large core diameter in relation to diameter of fruit, round shape in transverse section, shape of stem end is obtuse, shape of calyx end is rounded, no sutures, no creasing, no warts, absent or very short stripes, no dots

**FRUIT VESTITURE:** prickles only type, sparse density of prickles, white

**FRUIT SKIN:** dark to very dark green ground colour at market stage, absent or very weak glaucosity, yellow ground colour at time of physiological ripening

**DISEASE REACTIONS:** resistance to *Cladosporium cucumerinum*, present; moderately resistant to Cucumber Mosaic Virus (CMV) and powdery mildew (*Podosphaera xanthii*) (Px); no resistance to *Corynespora* blight and Target leaf spot (*Corynespora cassicola*) (Cca), Cucumber Vein Yellowing Virus (CVYU) and Zucchini Yellow Mosaic Virus (ZYMV)

**Origin and Breeding:** 'Quatrino' (breeders reference 19-720 RZ) originated from a cross made in the autumn of 2013, in De Lier, Netherlands. The resulting hybrid was selected for its short internode length, ease of harvest, stable fruit set, fruit quality, small fruit size and dark fruit colour. Initial trials were conducted in De Lier, Netherlands in 2014 while larger trials were set-up during different growing seasons in the Netherlands and abroad in 2015 and 2016. 'Quatrino' is a snack cucumber variety suitable for high wire cultivation.

**Tests and Trials:** The detailed description of 'Quatrino' is based on the UPOV report of Technical Examination, application number KMK1200, purchased from Naktuinbouw in Roelofarendsveen, Netherlands. The trial was conducted by Naktuinbouw in Roelofarendsveen, Netherlands in 2016.



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