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Effect of propagation media on clonal propagation through rhizome sections in Alstroemeria cv. 'SERENA'

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ABSTRACT : A field experiment was carried out at the Floriculture Research Farm of SKUAST (K), Shalimar, Srinagar to investigate the effect of propagation media on clonal propagation through rhizome sections in alstroemeria cv. SERENA. Experimental treatments comprised of nine growing media *viz.*, soil + sand (1:1), soil + sand + farm yard manure (FYM) (1:1:1), soil + sand + FYM (1:2:1), soil + sand + FYM (1:1:2), soil + cocopeat + sand (1:1:1), soil + sand + cocopeat (1:2:1), soil + sand + cocopeat (1:1:2), sand + FYM (1:1) and sand + cocopeat (1:1) were tested for their influence on shoot and rhizome development. Among the different growing media used, soil + sand + cocopeat (1:1:2) performed superior recording maximum per cent sprouting (63.42%), per cent established plants (61.76%), number of vegetative shoots at 30, 60, 90, 120 DAP (1.42, 2.67, 3.94, 5.92), weight of the rhizome cluster per plant (14.53 g), number of rhizomes developed (2.96), length of the longest rhizome (6.20 cm), number of new storage roots (6.12), number of new fibrous roots (7.28) and propagation coefficient (42.07) whereas, media containing sand + cocopeat (1:1) performed poorly.

KEY WORDS: Growing substrate, Propagation co-efficient, Vegetative growth, Alstroemeria

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