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不同基质对红掌水培根诱导及植株生长的影响

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摘要: 以珍珠岩、陶粒、麦饭石、日向石、碎花泥、碎岩棉等6种基质固定小娇红掌诱导水培根, 获得水培红掌植株, 探讨不同基质对红掌水培根诱导和植株生长发育的影响。研究表明: 6种基质对红掌水培根在数量上的诱导有一定的抑制作用, 但是均能在不同程度上促进水培根提早萌发和根系伸长, 所有基质诱导处理7~10 d发根, 生根率达到100%, 持续6周生长后的水培根数均达到75条以上, 平均根长在1.5 cm以上, 其中日向石诱导发根最快(7 d), 花泥诱导的水培根数量最多(107.0±3.21条), 且平均根系较长(2.43±0.186 cm), 诱根综合效果最好; 不同固定基质对植株后续的生长发育也有影响, 其中日向石固定的水培红掌开花快, 生长旺盛, 植株形态佳, 自身清洁度高, 是水培红掌的良好生长固定基质。

关键词: 水培; 红掌; 基质; 根系诱导; 生长发育

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Effects of Different Substrates on Rooting and Growth of *Anthurium andraenum* under Water Culture

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Abstract: Effects of perlite, ceramsite, medical stone, hyuga stone, flower mud, rock wool on rooting and growth of *Anthurium andraenum* under water culture were studied. The results showed that all of 6 substrates could promote rooting early, increase the length of roots, but depressed rooting number. The rooting rate could reach 100% after 7 to 10 days induction, the number of substrate-inducing roots could reach more than 75 and average root length longer than 1.5 cm after 6 weeks growth. Hyuga stone could induce rooting earliest (7d), Inductive effects by flower mud, both the number (107.0±3.21) and average length (2.43±0.186 cm) of roots, was among the best. Substrates could also influence plant growth and development. While hyuga stone with high cleanliness was beneficial to promote rooting, flowering and growth and was the better water culture substrate of *Anthurium andraenum*.

Key words: Water culture; *Anthurium andraenum*; Substrate; Rooting induction; Growth and development

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