

Kaliandra and Charcoal Media

Effects on Dendrobium Orchids

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BACKGROUND

Orchid is one of the ornamental flowers worth economy tall and many popular society . Growth as well as quality The flowers are greatly influenced by the growing medium . Kaliandra can increase aeration and humidity , while charcoal wood guard porosity as well as pressing harmful microorganisms . Selecting the right planting medium become key For produce orchid *Dendrobium* with optimal growth and quality flowers Good .

01

Orchid Planting Media





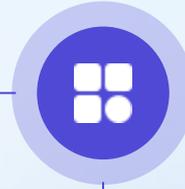
Kaliandra as a medium

Benefits for Orchids

Supports healthy roots, maintains ideal humidity, improves the quality of Dendrobium flowers.

Combination with Charcoal

Improves aeration, prevents mold, balances humidity for optimal growth.



Characteristics of Kaliandra Media

Contain more nitrogen high, optimal water retention, rich in retention, rich in organic nutrients for orchid growth.

Environmental Excellence

Renewable, readily available, environmentally friendly friendly compared to conventional media.

Charcoal as a medium



Characteristics of Charcoal

Has high aeration, sterile, prevents fungus, supports orchid root growth.



Media Advantages

Not easy to rot, good drainage, maintains optimal humidity for Dendrobium orchids.



Growth Influence

Supports healthy root development, improves orchid flower quality.



Calliandra as a medium



Media Advantages

Contain substance nitrogen, not easily rotted, good drainage, maintains optimal humidity for Dendrobium orchids.

Growth Influence

Supports healthy root development, improves orchid flower quality.

Influence Growth

Providing natural nitrogen For growth leaves and stems

More leaves green

Support lush

Combination of planting media

Calliandra and charcoal media.

The ideal combination for Dendrobium orchid growth with a balance of nutrients and aeration.



Optimal proportions.

A 50:50 ratio provides sufficient moisture and good drainage for the roots.



Combination benefits.

Significantly increases vegetative growth and quality of orchid flowers.



Practical applications.

Easily available, economical, and environmentally friendly for sustainable orchid cultivation.



02

Vegetative Growth of Dendrobium



Plant root development

Optimal root growth.

Calliandra and charcoal media support the development of Dendrobium orchid roots well.



Healthy roots.

The plant roots show a fresh green color with no signs of decay.

Root length increases.

Periodic measurements showed significant increase in increase in root length in the combination media. media.



Strong root system.

The planting medium provides good aeration so that so that the roots grow strong and spread.



Orchid stem height

01

Optimal growth

Calliandra media supports better growth of orchid stems.

03

Periodic measurements

Stem height was measured every two weeks from base to shoot.

02

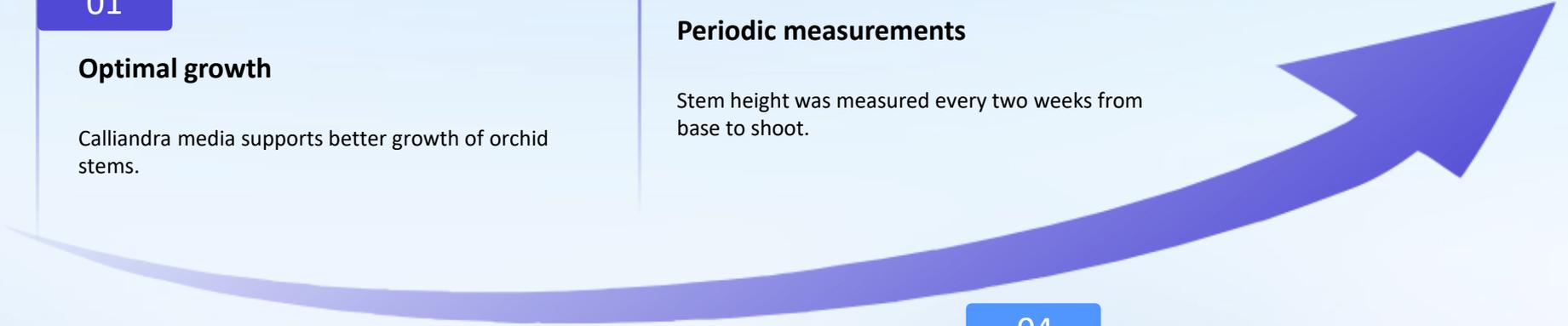
Planting media factors

Aeration and humidity of the media affect the development of orchid stems.

04

Nutritional influences

The organic content of calliandra provides nutrients for stem growth.





Number of new leaves

Orchid leaf growth

Influenced by the planting medium that supports root development and nutrition.

Calliandra Media

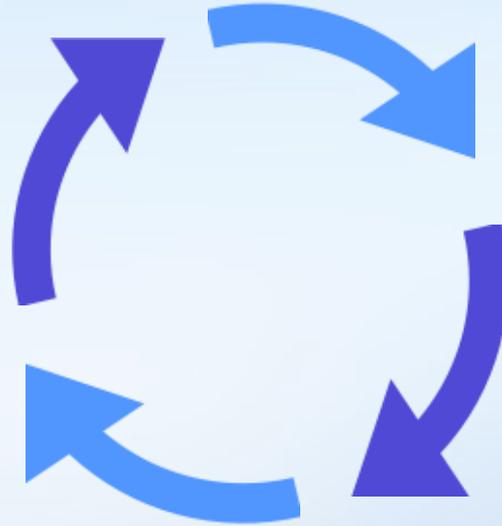
Rich in organic nutrients, contains nitrogen, stores optimal humidity for new leaf growth.

Charcoal media

Good aeration, sterile, supports healthy root growth for leaf production.

Media combination

Provides a balance of nutrients and aeration for optimal leaf growth.



03

Orchid Flower Quality



Size and color of flowers



Optimal flower size.

The planting medium affects the size of the Dendrobium orchid flowers.



Bright flower colors.

Calliandra media nutrition produces more intense flower colors.



Flower durability.

The combination of media increases the resistance of flowers when they bloom.



Amount of interest.

Charcoal media supports more flower production.

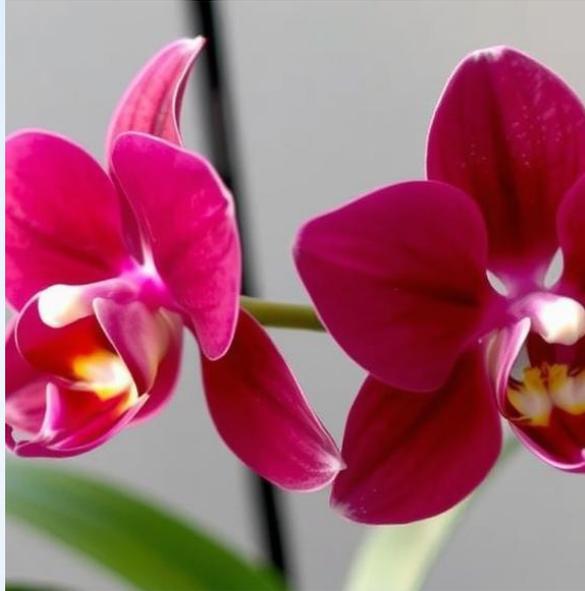
Flower durability

Planting media factors.

Calliandra and charcoal media affect the durability of Dendrobium orchid flowers.

Balanced nutrition.

The organic content of the media supports the quality and durability of the flowers.



Optimal humidity.

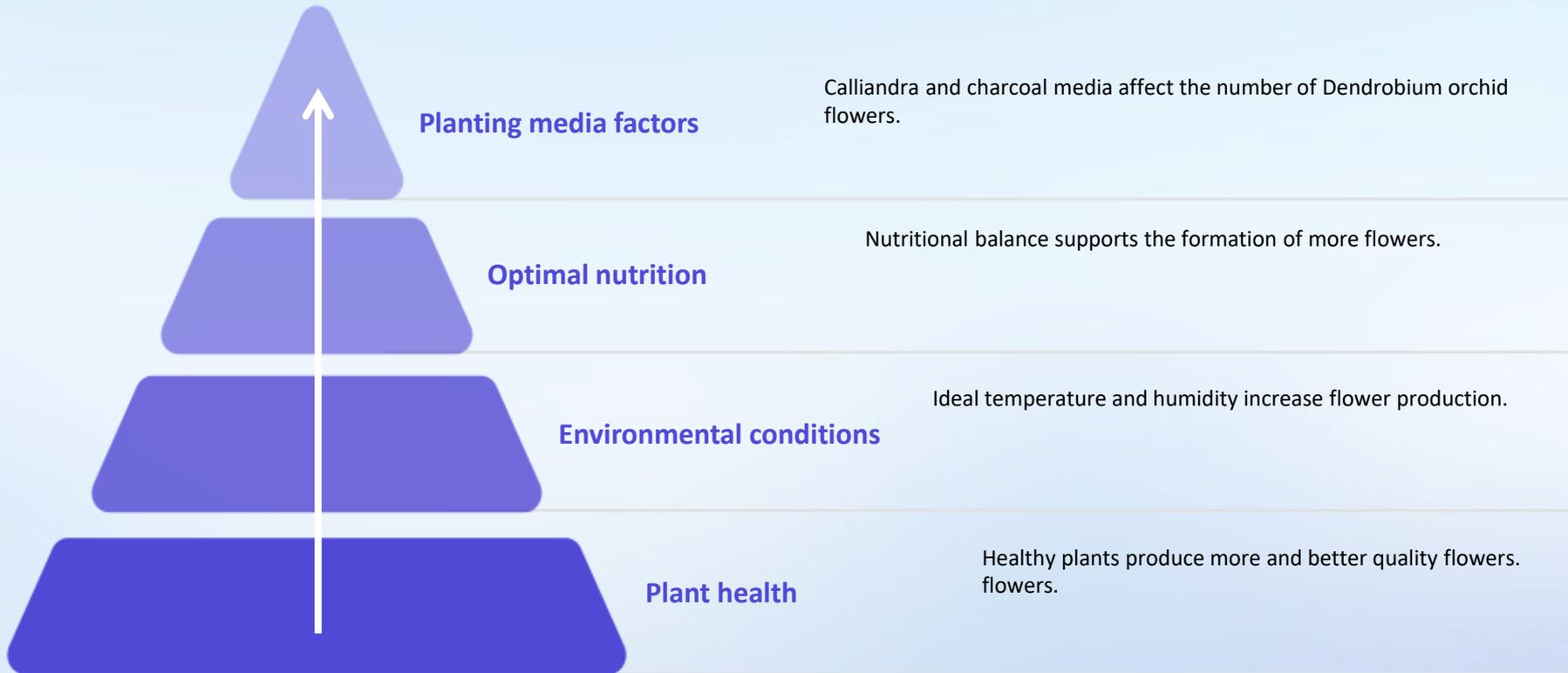
The balance of water and air in the media prevents damage to the flowers.

Good aeration.

Air circulation in the media keeps the flowers fresh longer.



Amount of interest generated



Thanks!