Propagation protocol for *Warburgia ugandensis*

Family scientific name: Canellaceae
Scientific name: *Warburgia ugandensis*
Synonym: *Warburgia breyeri*





Common name: Uganda greenheart, Kenya greenheart, East African greenwood, East African greenheart, pepper-bark tree.

Local names: Luganda: Mukuzannume; Luganda – Buddu dialect: Muwiya; Lusoga: Balwegira; Runyankore: Mwiha; Runyoro: Musizambuzi; Rutoro: Muharami

General distribution: Grows in colonizing forest, forest edges and thickets, over dry sites.



Medicinal uses: Treatment of malaria, measles, African trypanasomiasis, leischmaniasis, candidiasis

Propagation goal: Improvement for leaf biomass production, medicinal plant cultivation

Propagation method: Clonal (stem cuttings)

Time to planting out: 3 months (90 days)

Cutting specification: Collect softwood cuttings, leaving two or more lateral buds and leaves on the cutting. Trim the cuttings to approx 7.5 cm long

Propagule collection: Collect only in the morning hours to reduce on desiccation and keep cuttings moist/ cool at all times by placing them in cool boxes.

Propagule processing: Square the bases of all cuttings by use of a sharp pair of scissor to avoid one-sided rooting. Dip the cuttings in water (treated with a slight tinge of OMO soap detergent) and treat each cutting with 0.8% IBA hormone to a length of 1 cm from the base. Spray Dithane M45® at 2000 ppm on all cuttings to control fungal infections.

Non misting conditions: Construct tunnels using white 0.5 mm polythene sheets, 4 cm wide wooden frames. Fumigate milled pine bark with Dithane M-45® anti-fungal powder at 2000 ppm.

Propagation practices: Stick each cutting into milled pine bark rooting media at a depth of between 2.5 cm and 5 cm. Compact the milled pine bark around the bases of the cuttings, water and cover with a thick polythene sheet in a non-misting chamber. Monitor every two days in a week to remove dead leaves and cuttings. Water twice a week in order to keep the rooting media moist until the cuttings have rooted.





After 3 months (90 days), transfer all ramets that have borne 2-3 leaves and an equivalent number of roots to 30 cm polythene pots for hardening off.

The propagules are ready for planting out 3-4 weeks after potting (hardening off).

Citation:

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