

# Vegetative Propagation Protocol Form for Air Layering



# VEGETATIVE PROPAGATION PROTOCOL: AIR LAYERING

This form collates the information about the best method for air layering of the target species.

Authorship (*people that contributed propagation information*):

Date of publication:

Logo/s of the affiliated organisation(s):

## GENERAL INFORMATION

<b>Taxon name</b>	<i>Scientific name of the propagated species</i>		<b>Name/s of propagator/</b>	<i>Name(s) of the person or people that carried out the propagation</i>	
<b>Family</b>	<i>Plant family of the propagated species</i>		<b>Organisation</b>	<i>Organisation(s) where the propagation was carried out</i>	
<b>Site and country</b>		<i>Site(s) and country where the propagation took place</i>			

## AIR LAYERING

### Description of procedures, materials and success of the air layering.

<b>Procedures</b>	<b>Position of air layering</b>	<i>Explain in detail the location of the air layering in relation to buds and describe the maturity of the stem (soft wood, semi-hard wood, hard wood). Illustrate with photographs below</i>	
	<b>Cut to the stem</b>	<i>Describe the cut made to the stem (e.g. cutting a ring of the bark, upward slanted-cut...)</i>	
	<b>Rooting hormone</b>	<i>If used, type of rooting hormone (liquid, powder or gel), which active ingredients (IAA, NAA &amp; IBA) and concentration</i>	
	<b>Rooting media</b>	<i>Media composition: include percentages/ratio for the different components</i>	
	<b>Wrapping technique</b>	<i>Describe the wrapping of the rooting media and material used (e.g. air layering balls, plastic and foil...)</i>	
	<b>Moisture maintenance</b>	<i>Describe how to keep the media moist (e.g. adding water, hydrogel, changing the moss...) and monitoring frequency</i>	
	<b>Type of environment</b>	<i>Describe the environment where air layering took place (e.g. glass house, outdoors, in situ...)</i>	
	<b>Environmental conditions</b>	<i>Describe the environmental conditions where air layering took place (temperature, humidity)</i>	
<b>Success</b>	<b>Time of the year for air layering</b>	<i>List month/s when air layering is best</i>	
	<b>Duration until rooting</b>	<i>Average number of days/months/years until roots were visible in the air layering</i>	
	<b>% Air Layer success</b>	<i>(Number of new plants rooted) x 100 / (Total number of air layering attempted in mother plant)</i>	

<b>Materials</b>	<i>List of materials needed for air layering to help with the planning of this activity. E.g. aluminium foil, plastic bags, hydrogel, strings...</i>	
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- + **Add photographs of the air layering process. Make sure to include a detailed description of the photo, such as the growth stage, date, activity or process.**

## VEGETATIVE PROPAGATION PROTOCOL: AIR LAYERING

### FIRST POTTING

Procedures and materials for the cultivation of the plants and the success of the growing of the plants.

<b>Procedures</b>	<b>Growing Media</b>	<i>Media composition: include percentages/ratio for the different components</i>	
	<b>Container</b>	<i>Describe size and material of the container in which plants are potted</i>	
	<b>Fertiliser</b>	<i>If used, include: type (organic or inorganic); nutrient composition and its ratio; and application (added to soil, dissolved on water, foliar application)</i>	
	<b>Watering technique</b>	<i>Describe watering tool, technique and frequency while growing the plants</i>	
	<b>Plant growing facilities</b>	<i>Describe the facilities where the plant growing took place (e.g. glasshouse, outdoors, shaded area...)</i>	
	<b>Environmental conditions</b>	<i>Describe the environmental conditions where the plant growing took place (temperature, humidity, light levels)</i>	
<b>Success</b>	<b>Number of days until first potting</b>	<i>Average number of days since air layering was prepared until first potting</i>	
	<b>Duration until established plants</b>	<i>Average number of days/month/years for which the plant growth was monitored until the establishment of plants</i>	
	<b>% Plants established</b>	<i><math>(\text{Number of plants established}) \times 100 / (\text{Total number of plants potted})</math></i>	
	<b>Health observations</b>	<i>Record any signs of pest or disease, nutrient deficiency, damage... and the stage when they were observed (e.g. during rooting, growing of plants....)</i>	
<b>Materials</b>	<i>List material needed for potting to help with the planning of this activity. E.g. pots, dibbers, labels...</i>		

- + **Add photographs of the potting process and the growing of plants. Make sure to include a detailed description of the photo, such as the growth stage, date, activity or process.**