Vegetative Propagation Protocol Form for Air Layering

BOTANIC GARDENS CONSERVATION INTERNATIONAL

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

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

Materials	*List of materials needed for air layering to help with the planning of this activity. E.g. aluminium foil, plastic bags, hydrogel, strings…*	

+ ***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.***

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FIRST POTTING

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

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

+ ***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.***