PRODUCT APPLICATION

Unrooted Cuttings

EthylBloc™

EthylBloc™ is an ethylene-action inhibitor that improves postharvest cutting quality by protecting unrooted cuttings (URC) against ethylene's negative effects during shipping. This environmentally friendly technology works naturally to bind URC ethylene receptors, safeguarding against postharvest leaf abscission (leaf drop) and premature leaf senescence (yellowing) often associated with shipping. Versatile EPA-approved EthylBloc™ Sachets suit the smallest to largest shipping packages.

Key Facts

+ Works naturally with unrooted vegetative cuttings to bind ethylene receptors, inhibiting ethylene-induced damage and loss.
+ Protects URC against external ethylene in the environment and internal ethylene they produce themselves.
+ Helps eliminate leaf drop and leaf yellowing of unrooted cuttings during and after shipping.
+ Supports improved postharvest cutting quality and propagation, no negative impact on rooting response.
+ Sachets suit smaller spaces, including shipping boxes from offshore production facilities bound for North America or Europe.
+ U.S. Environmental Protection Agency (EPA) approved nontoxic technology, requires minimal labor and leaves no trace or residue.

Treatment of Unrooted Cuttings

EthylBloc™ ethylene-action inhibitor is ideal for treating all types of unrooted vegetative cuttings that are sensitive to internal or external ethylene. Versatile sachet options offer flexibility to effectively treat URC shipments ranging from large shipping boxes to the smallest containers. Please refer to EthylBloc™ Product Usage documents for instructions on preparing sachet treatments.

For box shipments, unrooted cuttings are typically prepped and then bagged in quantities of 100. Once the unrooted cuttings have been prepped and bagged, follow these URC boxing steps:

1. Place a large, sealable plastic bag into an empty precooled shipping box. This outer bag should be large enough to hold all the smaller prepped URC bags easily.
2. Place a frozen ice pack, surrounded by cardboard to prevent direct contact with cuttings, as a divider in the center of the large outer bag.
3. Place half of the smaller URC bags on each side of the cardboard divider.
4. Place two 2.5-gram EthylBloc™ Sachets in the outer bag, one on the left center and one on the right center. (For shipments larger than 3 cubic feet, see EthylBloc™ Product Usage documents for the number of sachets needed for your box volume.)
5. Seal the outer bag.
6. Close and seal your shipping box.

EthylBloc™ Sachet treatments protect unrooted cuttings against ethylene-induced symptoms such as leaf drop and leaf yellowing, improving postharvest quality and enhancing propagation success. The following are some examples of ethylene-sensitive unrooted cuttings. Plant sensitivity may vary with variety.

Ethylene Sensitivity in Unrooted Cuttings

Common Name	Scientific Name	Sensitivity	Ethylene Injury Symptoms
Anise hyssop, Licorice Mint	*Agastache* spp.	Medium to High	Leaf abscission
Clockvine	*Thunbergia* spp.	Medium to High	Leaf abscission
Croton	*Codiaeum variegate pictum*	High	Leaf abscission
Euphorbia	*Euphorbia x hybrida*	High	Leaf abscission
Geranium	*Pelargonium* spp.	Medium	Leaf yellowing
Hibiscus	*Hibiscus* spp.	Medium to High	Leaf abscission
Lantana	*Lantana* spp.	High	Rapid, dramatic leaf abscission
Mandevilla, Dipladenia	*Mandevilla* spp.	Medium to High	Leaf abscission
Moss Rose	*Portulaca* spp.	High	Rapid, dramatic leaf abscission
Poinsettia	*Euphorbia pulcherrima*	High	Leaf abscission (during initial course of propagation), Leaf yellowing

Note: If cuttings from crops other than those listed above display leaf abscission or yellowing, they could benefit from EthylBloc™ treatment to inhibit ethylene-induced damage. Your Oasis Grower Solutions Technical Sales Representative can help you coordinate in-house trials to confirm the effects.

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