

2024-4721

2025-01-21

This label has been updated according to the re-evaluation decision for *Agrobacterium radiobacter* strain K84, RVD2024-06. While users are encouraged to follow this updated label immediately, the previously approved label is valid until 2026-06-24 in accordance with the phase out period set out in the re-evaluation decision for *Agrobacterium radiobacter* strain K84, RVD2024-06. This previously approved label will be provided upon request by emailing [hc.pmra.info-arla.sc@canada.ca](mailto:hc.pmra.info-arla.sc@canada.ca). In your email please include the product name and Registration number of the label you are requesting.

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DYGALL

COMMERCIAL

**An Inoculant for the  
control of CROWN GALL  
on NURSERY PLANTS**

ACTIVE INGREDIENT

Approximately  $5 \times 10^9$  colony forming units of *Agrobacterium radiobacter* strain K84 per gram

**TO BE USED BY TRAINED NURSERY PERSONNEL ONLY**

**CAUTION - EYE IRRITANT / POTENTIAL SENSITIZER**

**READ THE LABEL AND ATTACHED BROCHURE BEFORE USING**

Net Contents 160g

Date of Manufacture

REGISTRATION NUMBER 21106  
PEST CONTROL PRODUCTS ACT

Storage and Shelf Life – In order to ensure microbial purity and live bacterial count, Dygall should be stored in the original container at temperatures below 5°C and used within four months of the date of manufacture.

Produced by:

AgBioResearch Ltd  
P. O. Box 3414, Richmond  
New Zealand

Distributed by:

Upper Canada Growers Ltd  
Niagara-on-the-Lake  
Ontario LOS 1J0  
(289) 646-0738

2024-4721

2025-01-21

**READ INSTRUCTIONS WITHIN BEFORE USE****PRECAUTIONS**

- **KEEP OUT OF REACH OF CHILDREN.**
- **KEEP TREATED SEED OUT OF REACH OF CHILDREN AND ANIMALS**
- Wash hands and exposed skin before meals and after work.
- Mild eye irritant. Avoid contact with eyes.
- May cause sensitisation. Avoid contact with skin, eyes or clothing. Avoid inhalation of dust particulates. All handlers must wear a long-sleeved shirt, long pants, protective eyewear (goggles), waterproof gloves, socks and shoes, and a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter when handling, mixing, loading, or applying the product, and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.
- DO NOT contaminate irrigation or drinking water or aquatic habitats during equipment clean-up or waste disposal.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's web site at: [www.croplife.ca](http://www.croplife.ca)

Dygall is a biological product.

Read carefully conditions of use

**HOLD IN COOL STORAGE**

**FIRST AID**

- If swallowed: Call a poison control center or doctor immediately for treatment advice. Rinse mouth and throat with plenty of water. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- If on skin/clothing: Take off contaminated clothing. Wash with plenty of soap and water. Call a poison control center or doctor for treatment advice.
- If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control centre or doctor for treatment advice.
- If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- General: Seek medical attention immediately if irritation or signs of toxicity occur and persist or is severe. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION: Treat Symptomatically****DISPOSAL:**

2024-4721

2025-01-21

1. Triple- or pressure-rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

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**PEST CONTROL PRODUCTS ACT**

**Produced by:**

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NEW ZEALAND

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- **DYGALL** should be used by trained nursery personnel only.
- Unopened packs of **DYGALL** must be held under cool storage until required for use.
- **DYGALL** should be used before the expiry date shown on the packet.
- Do not attempt to store part of an opened packet of **DYGALL** as it may deteriorate through contamination and give poor results.
- Do not use water or equipment contaminated with chemicals likely to be harmful to bacteria, e.g. copper, streptomycin, chlorine.
- Do not add detergents, trace elements, fungicides, insecticides or other materials to the dip.
- Do not cut packets in half to suit a lesser amount of water as distribution of bacteria may be uneven throughout the packet.
- Sunlight is lethal to bacteria and must be excluded from the culture, the dip, and inoculated seedlings or cuttings prior to planting.
- Prepared dip held for more than 3 days should be discarded by placing in a shallow trench and allowed to soak into the soil.

**DYGALL** is produced from cultures supplied by the Plant Diseases Division of the Department of Scientific and Industrial Research, Auckland, New Zealand.

## INTRODUCTION

It is important to remember that **DYGALL** is a preventative for Crown Gall and should be applied to susceptible plants before exposure to the disease or final field placement.

The use of **DYGALL** should complement good sanitation and sound nursery management.

Woody plants susceptible to Crown Gall should be treated:

Stone fruit:	Apricots, Cherries, Nectarines, Peaches, Plums, Prunes.
Pomefruit:	Asian Pears, European Pears.
Berryfruit:	Blackberries, Blueberries, Boysenberries, Raspberries
Vinefruit:	Grapes
Ornamentals:	Chrysanthemums, Clematis, Euonymus, Flowering Stonefruits, Gypsophilia, Marigolds, Roses.
Miscellaneous:	Almonds, Chestnuts, Hops, Poplars, Walnut, Willow, Juniper, Cydonia.

## DIRECTIONS FOR USE

**Seeds:**

2024-4721

2025-01-21

**DYGALL** can be used to treat a variety of seeds including Peach and Stonefruit.

1 pack of **DYGALL** will treat approx. 45 kg of seeds.

Mix the required amount of **DYGALL** in 1 litre of clean water in a clean bowl. Ensure thorough mixing to adequately disperse the bacteria. Add the **DYGALL** slurry to 50 litres water in a clean tank and mix thoroughly. Immerse seeds in mix using a mesh basket or similar. Remove and allow to drain over tank. Exclude all sunlight from operation. Plant immediately. Further seeds may be inoculated by adding the appropriate amount of **DYGALL** and water and topping the tank back up to the 50 litre level.

#### **Rootstock Cuttings:**

**DYGALL** can be used to treat a variety of Rootstock cuttings e.g. Rosa multiflora, fruit trees.

1 pack of **DYGALL** will treat up to 7,500 cuttings.

Mix the required amount of **DYGALL** with 1 litre of water, as described for seeds, and add to 50 litres of water. Immerse cuttings in mix, remove and plant immediately. Keep inoculated cuttings cool and prevent any exposure to any sunlight. Further cuttings may be inoculated by adding the appropriate amount of **DYGALL** + water and topping the tank back up to the 50 litre level.

#### **Seedlings and Rooted Cuttings:**

1 pack of **DYGALL** will treat 3,500 Stone and Pomefruit seedlings and rooted cuttings.

1 pack of **DYGALL** will treat 7,500 Vine and Berry fruit seedlings and rooted cuttings.

Mix the required amount of **DYGALL** with 1 litre of water, as described for seeds, and add to 50 litres of water. Wash roots free of soil or rooting media, trim excessive long roots. Immerse seedlings in mix and allow to drain back into tank. Prevent exposure to any sunlight. Plant treated seedlings as soon as possible. Further seedlings may be inoculated by adding the appropriate amount of **DYGALL** + water and topping the tank back up to the 50 litre level.