

MAKING SCIENCE
AFFORDABLE

LEAF SAMPLE COLLECTION KIT USER GUIDE

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1. INTRODUCTION

The sampling and storage of leaf samples for DNA extraction has a big impact on the final quality and quantity of the DNA extracted. This document aims to provide you with simple, clear instructions on how to use the 3CR Bioscience Leaf Sample Collection Kit to sample and prepare leaf tissue optimally when shipping to us for DNA extraction.

2. KIT COMPONENTS

- A. 1 x 96-tube storage rack containing individual 2D-barcoded tubes sealed with a secure locking lid.
- B. 1 x Sponge pad to fit inside the lid of the storage rack for shipping.
- C. 1 x Sealed black plastic packet containing 2 x 10g sachets of desiccant.

! Do not open this packet until the samples are ready to be shipped, to preserve the desiccant !

- D. 1 x Large clear sealable plastic bag

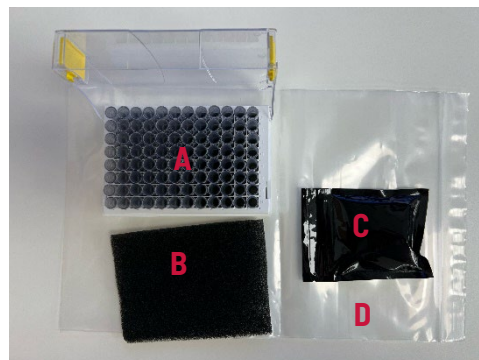
Either:

- E. 1 x Basic leaf cutting tool and leaf cutting mat (order separately)

or

- F. 1 x Advanced cutting tool (order separately)

- G. Plate Map for recording sample IDs (image not shown, provided in paper and electronic form)



3. LEAF SAMPLE COLLECTION PROCEDURE

Please familiarise yourself with the contents of this kit and read through the following steps in this guide before sampling your leaves. It may be useful to practice sampling a few leaf discs first before starting on your test samples.

A. PROCEDURE USING THE BASIC LEAF CUTTING TOOL



1. Place the leaf cutting mat under the leaf to be sampled. There is no requirement to remove the whole leaf from the plant.



2. Press the leaf cutting tool into the leaf and onto the leaf cutting mat. Twist the tool through the leaf and onto the mat as it cuts. The cut leaf disc leaf will remain in the tool.

3. Select a 2D-barcode tube from the rack provided & remove lid. With the leaf disc still inside, insert the end of the leaf cutting tool into the opening of the tube.



4. Press down the plunger on the top of the tool to release the leaf disc into the tube. Record the ID of the sampled leaf onto the Plate Map provided.



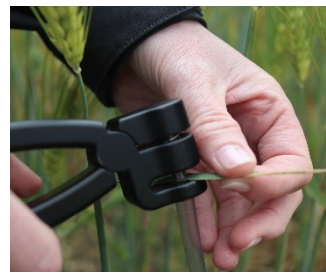
5. Rinse the leaf cutting tool in water between each leaf and shake dry to avoid cross-contamination between samples.

6. Repeat steps 1 – 5 until you have collected all the leaf discs you require for your project. To confirm how many leaf discs you need for your project, please contact 3CR Bioscience at labservices@3crbio.com.

B. PROCEDURE USING THE ADVANCED LEAF CUTTING TOOL



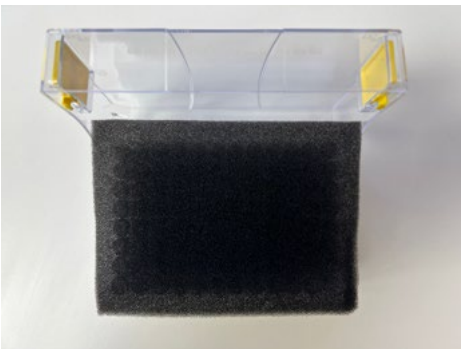
1. Select an empty 2D-barcode tube from the rack provided and remove the lid. Insert it into the base of the advanced leaf cutting tool.



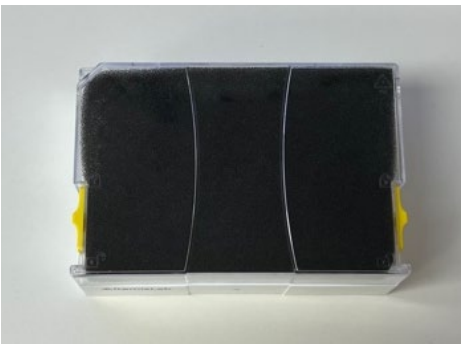
2. Slide your leaf between the top of the tube and the edge of the round cutting blade. Squeeze the handles of the tool together to punch a leaf disc into the 2D-barcode tube.

- Record the ID of the sampled leaf onto the Plate Map provided.
- Rinse the leaf cutting tool in water between each leaf and shake dry to avoid cross-contamination between samples.
- Repeat steps 1 – 4 until you have collected all the leaf discs you require for your project. To confirm how many leaf discs you need for your project, please contact 3CR Bioscience at labservices@3crbio.com.

4. PACKING YOUR LEAF SAMPLES FOR SHIPPING



- Fill the storage rack with your sample tubes. Please leave at least two tubes empty so there is space to include negative controls in the final sample plate.



- Once the rack is filled with your sealed sample tubes, place the sponge pad on top of the tubes, and securely close and lock the lid of the rack.



3. Take the sealed, black plastic packet and open it. Only do this when you are ready to pack your rack for shipping.



4. Take out the two desiccant sachets from the packet and place them, along with the 96-tube storage rack into the large clear sealable bag provided.



5. Expel as much air from the bag as possible and then close the seal. This step seals in the remaining air around the samples and allows the desiccant sachets to absorb moisture from the sample to reduce the chance of fungal growth.

6. Pack the rack(s) into a secure box for shipping to 3CR Bioscience.
7. Prepare customs commercial invoice and book a shipment with your preferred courier making sure to take note of the tracking number. Alternatively, 3CR Bioscience can arrange the sample collection for you. Please contact your sales representative if you wish us to manage this on your behalf.
8. Complete an electronic plate map file and send this to labservices@3crbio.com along with the tracking number of your shipment. You will receive an email to confirm that we are aware you have shipped your samples. You will also receive an email once we receive the samples to confirm that we have them.

5. SHIPPING ADDRESS

SHIPPING ADDRESS: 3CR Bioscience, Unit 10 West Point Business Park, West Road, Harlow, Essex CM20 2BU, United Kingdom

TELEPHONE: +44 (0)1279 940 983

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6. SUPPORT

If you require any support with the use of the Leaf Sample Collection Kit or other 3CR Bioscience products and services, please contact our Technical Support team on support@3crbio.com.

7. LEGAL INFORMATION

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