Primer Mix, Ready-To-Use

Technical Data Sheet

Product Names	Pack Size*
Biotech 101 Primer Mixes	400 µL (200 rxn)
Fungal DNA Barcoding Primers	400 µL, 2x 200 µL (200 rxn)
Plant DNA Barcoding Primers	400 µL, 2x 200 µL (200 rxn)
Animal / Metazoa DNA Barcoding Primers	400 µL, 2x 200 µL (200 rxn)
Bird DNA Barcoding Primers	400 µL, 2x 200 µL (200 rxn)
Bird Sexing Primer Mixes, 200 rxn	400 µL (200 rxn)

** Assuming 20 µL PCR reactions.*
For research and educational use only.

Description

Primers are short DNA sequences, which are used to define the region amplified during PCR. The Ready-To-Use primer mixes contain all the primers for a specific project, premixed and diluted to an easy-to-use concentration. They are designed for the Bento DNA Analysis Projects, a range of hands-on projects exploring genetics.

Reagent Composition

Deoxyribonucleic Acid

Storage & Stability

Store at 4ºC for up to nine months, or at –20 °C for longer term storage.

Temporary storage for up to 6 months at room temperature has no detrimental effects.

Shipping conditions

Shipped at room temperature.

Safety warnings and precautions

This product and its components are not considered hazardous in their given concentrations. However, as with all scientific reagents this product should be handled and stored with care as standard practice. Wear gloves. Care should be taken to avoid contact with skin or eyes. In case of contact with skin or eyes, wash immediately with water.

Quick Start Protocol

Label PCR tubes with a fine permanent marker, and make a list of samples and tube numbers.

For a 20 µL reaction:

1. Pipette 2 µL of the Ready-To-Use Primer Mix into each PCR tube.
2. Using new pipette tips each time, pipette DNA template and Master Mix into each tube.
3. Make up the final volume by adding PCR Grade Water.
4. Close the tubes, and mix well.
5. Place in thermocycler, and run the appropriate PCR programme.

Component	Volume *per 20 µL reaction	Volume *per 25 µL reaction	Final Concentration
Primer Mix	2 µL	2.5 µL	1.0 µM
PCR Master Mix	as per protocol	as per protocol	1X
DNA template	1-4 µL	1-5 µL	< 250ng
PCR Grade Water (up to final volume)	0 – 17 µL	0 – 22 µL	
Total Volume	20 µL	25 µL	