



## **PCR Master Mix Aliquoting**

## Rodolfo Salido Benitez<sup>1</sup>

<sup>1</sup>Knight Lab @ UC San Diego Health

dx.doi.org/10.17504/protocols.io.ua8eshw



Rodolfo Salido Benitez Knight Lab @ UC San Diego Heal..



#### ABSTRACT

The protocol outlines how to aliquot PCR Master Mix for  $5\mu L$  miniaturized amplification of 16S gene in 384-well format using the epMotion.

PROTOCOL STATUS

#### Working

We use this protocol in our group and it is working

#### **MATERIALS**

NAME ~	CATALOG #	VENDOR ~
Platinum Hot Start PCR Master Mix (2x)	13000014	Thermo Fisher Scientific
twin.tec PCR Plate 384	951020729	Eppendorf
epMotion Reservoir 10 mL	0030126521	Eppendorf
ep T.I.P.S 1 - 50 μL w/filter	0030015215	Eppendorf
PCR Clean Water	View	

# MATERIALS TEXT

- (1) ep T.I.P.S. Motion Racks 1-50 µL w/filter
- (1) epMotion reservoir 10mL
- (3) twin.tec PCR Plate 384

Platinum Hor Start PCR Master Mix 2X

#### BEFORE STARTING

Please wear at least the minimum required personal protective equipment.

Ensure that all necessary kit components are available as well as user-supplied consumables.

Remove nuclease and nucleotide contamination from work surfaces and instruments prior to starting using an appropriate solution, such as RNase AWAY $^{\text{TM}}$  (Thermo Scientific $^{\text{TM}}$  catalogue: 700511), followed by wiping with 70% to 100% molecular biology grade ethanol to remove additional contaminants.

# Mix reagents

In a sterile 10mL reservoir, add 2,534  $\mu$ l of Platinum Hot Start PCR 2X Master Mix and 3,295  $\mu$ L of PCR Clean Water per set of 384 samples





Mix pipette.

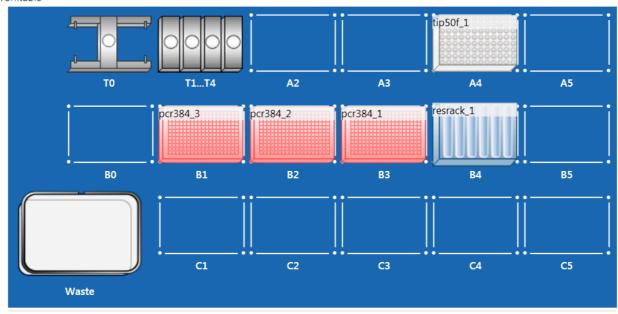
### Setup epMotion automation platform

2



Follow the diagram below while setting up the epMotion worktable.

## Worktable



Place (1) box of 1-50 $\mu$ L epT.I.P.S. w/filters on deck slot A4

Place empty 384 PCR Primer Plates 1-3 on deck stols B1-B3

Place 10mL reservoir with PCR Master Mix in the first slot of the reservoir rack, then place reservoir rack on deck slot B4.

# Execute automated protocol

3 Remove box lids and execute protocol.

(Protocol must be imported to epBlue software prior to attempting to execute it. epBlue 40.6 or later)

Application\_3XPCR\_mastermix aliquot 4ul\_384eppendorf\_181003\_105306.export6

The automated protocol transfers 4.6  $\mu$ L of PCR Master Mix into (3) 384-well PCR plates using the multidispense feature of the epBlue software.

This is an open access protocol distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited