



## 3X PCR Replicate Pooling

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[dx.doi.org/10.17504/protocols.io.ue8ethw](https://doi.org/10.17504/protocols.io.ue8ethw)

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### ABSTRACT

The following protocol pools miniaturized PCR replicates from (2) different 384-well plates into (1) final 384-well plate using the epMotion 5075. The miniaturized PCR reaction was done in triplicate across (3) 384-well plates and the third PCR plate will be the final storage plate for PCR products.

### PROTOCOL STATUS

#### Working

We use this protocol in our group and it is working

### MATERIALS

NAME ▾	CATALOG # ▾	VENDOR ▾
twin.tec PCR Plate 384	951020729	Eppendorf
ep T.I.P.S 1 - 50 µL w/filter	0030015215	Eppendorf

### MATERIALS TEXT

(3) twin.tec PCR Plate 384

(4) ep T.I.P.S. 1-50 µL Motion Racks w/filter

### 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™ (Thermo Scientific™ catalogue: 700511), followed by wiping with 70% to 100% molecular biology grade ethanol to remove additional contaminants.

### Prepare PCR plates

- 1 If needed, thaw PCR plates, then centrifuge them.

### Setup epMotion automation platform

2

#### EQUIPMENT

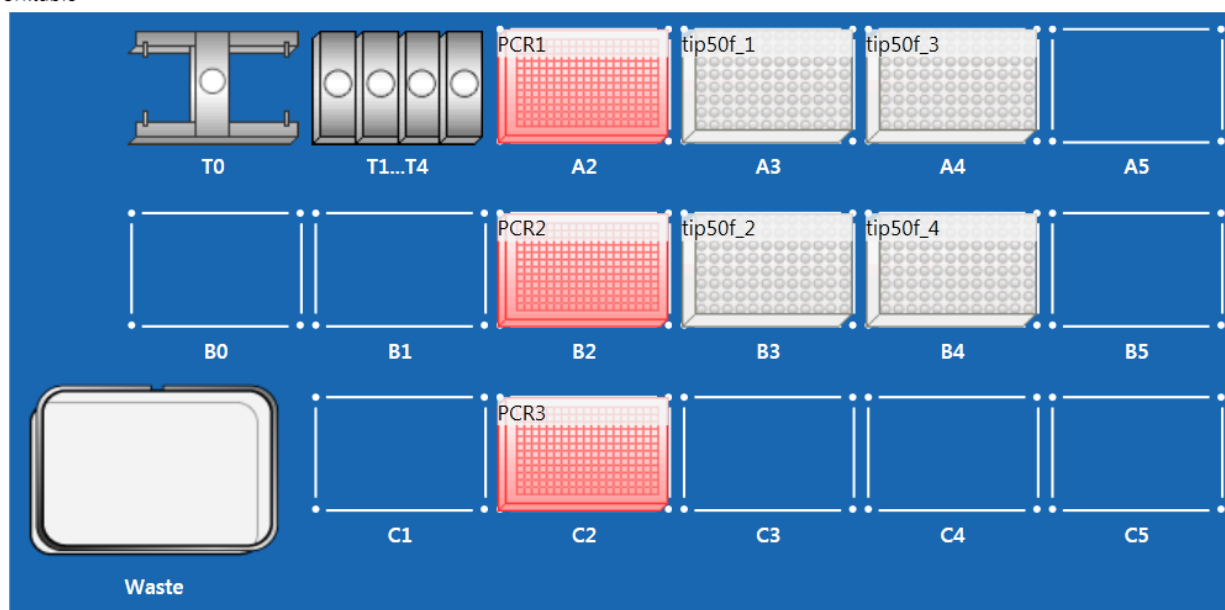
epMotion 5075

Liquid Handling

Eppendorf 5075000962

Follow the diagram while setting up the epMotion worktable.

## Worktable



Place (4) boxes of 1-50 $\mu$ L ep T.I.P.S. w/filter on slots A3-A4 and B3-B4 respectively.  
Place PCR plates on slots A2, B2, and C2.

## Execute automated protocol

- 3 Remove box lids and plate foils and execute protocol.

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

☐ [Application\\_3X\\_pooling\\_3-384 to 1-384\\_181003\\_105035.export6](#)

The automated protocol uses the multiaspirate feature of the epBlue software to pool PCR products from plates PCR1 and PCR2 and dispense them into plate PCR3. The command aspirates 7 $\mu$ L from each plate which will result in some air being aspirated.



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