

## SPECIFICATIONS

### ADJUSTABLE TIP-SPACING MULTICHANNEL PIPETTES FOR THE ARC BIOTECHNOLOGY PLATFORM

#### INTRODUCTION

The Biotechnology Platform would like to obtain offers for **four (4)** adjustable tip-spacing multichannel pipettes. Adjustable tip-spacing pipettes should allow the user to change the distance between the channels while transferring liquid from variable source and destination plates/tubes. The pipettes should be mechanical and not electronic. The specific volume and distance specifications for each pipette is detailed below. These values are specific and the pipettes on offer should fall within these ranges for the bid to be considered. The pipettes should be of reliable brands, robust and long-lasting, and we therefore request testimonials from researchers that have implemented the pipettes on offer in their laboratories and are satisfied with their performance. The offered products **must** be compatible with the universal tips currently available in the market. If the offered product/brand use proprietary tips, it **must** also be usable with the universal tips.

#### **Specifications of the required pipettes:**

- **Two (2) 8-channel** adjustable tip-spacing multichannel pipettes are required that should be able to transfer the volume range of **1 – 10  $\mu$ L** and include the channel spacing distance range of **9 – 14 mm**.  
*The actual pipetting range of the pipettes may be wider than this, but the desired range (1 – 10  $\mu$ L) should fall within the range that the pipettes on offer can transfer. Similarly, the actual spacing range may be wider than 9 – 14 mm, but the pipettes must be able to be set to these distances.*
- **One (1) 8-channel** adjustable tip-spacing multichannel pipette is required that should be able to pipette the range of **10 – 100  $\mu$ L** and include the channel spacing distance range of **9 – 14 mm**.  
*The actual pipetting range of the pipette may be wider than this, but the desired range (10 – 100  $\mu$ L) should fall within the range that the pipette on offer can transfer. Similarly, the actual spacing range may be wider than 9 – 14 mm, but the pipette must be able to be set to these distances.*
- **One (1)** adjustable tip-spacing multichannel pipette is required that should be able to pipette the range of **120 – 500  $\mu$ L** and include the channel spacing distance range of **10 – 30 mm**.  
*The actual pipetting range of the pipette may be wider than this, but the desired range (120 – 500  $\mu$ L) should fall within the range that the pipette on offer can transfer. Similarly, the actual spacing range may be wider than 10 – 30 mm, but the pipette must be able to be set to these distances.*

**PLEASE NOTE:** Suppliers are required to complete ***all items in Table 1 - Table of Compliance and Details to offer***. Information should be provided in every column for all lines items detailing compliance and details on offer. Any columns left empty will constitute an incomplete and non-compliant quotation.

**PLEASE NOTE:** Suppliers are required to supply product information brochures **as evidence** for the specifications on offer or the bid will not be considered valid.

**Table 1. Table of Compliance and Details to Offer: Mandatory specifications**

	Feature/Specification	Comply (Y/N)	Details on Offer
	<b>General</b>		
1	Supply and deliver <b>4 new</b> adjustable tip-spacing multichannel pipettes to the ARC Biotechnology Platform, Onderstepoort Campus, 100 Old Soutpan Road, Pretoria.		
2	The supplier must provide onsite training on the correct usage of the pipettes.		
3	Local technical support is a requirement. Provide details of the location of support within RSA and how many in-house trained staff will be available.		
4	At least 1 testimonial of researchers (national or international) using the pipettes in their laboratories should accompany the bid. The contact details of the researchers should also be included. Only bids with positive testimonials will be considered.		
	<b>Instrument specifics of the pipettes</b>		
5	The pipettes should all be multichannel and the spacing between the channels should be adjustable.		
6	The pipettes should be mechanical and not electronic.		
7	Pipettes should contain a format limiter or similar for quick switches backwards and forwards between source and destination formats.		
8	Are the pipettes compatible with the universal tips? Please provide two or more compatible universal tip brands.		
9	<p>Can the supplier offer 2 pipettes that will comply with the specifications mentioned here? Please provide a brochure as evidence that the specifications have been met.</p> <p><b>Two (2)</b> 8-channel adjustable tip-spacing multichannel pipettes are required that should be able to transfer the volume range of <b>1 – 10 µL</b> and include the channel spacing distance range of <b>9 – 14 mm</b>.</p> <p><i>The actual pipetting range of the pipettes may be wider than this, but the desired range (1 – 10 µL) should fall within the range that the pipettes on offer can transfer. Similarly, the actual spacing range may be wider than 9 – 14 mm, but the pipettes must be able to be set to these distances.</i></p>		
10	<p>Can the supplier offer a pipette that will comply with the specifications mentioned here? Please provide a brochure as evidence that the specifications have been met.</p> <p><b>One (1)</b> 8-channel adjustable tip-spacing multichannel pipette is required that should be able to pipette the range of <b>10 – 100 µL</b> and include the channel spacing distance range of <b>9 – 14 mm</b>.</p> <p><i>The actual pipetting range of the pipette may be wider than this, but the desired range (10 – 100 µL) should fall within the range that the pipette on offer can transfer. Similarly, the actual spacing range may be wider than 9 – 14 mm, but the pipette must be able to be set to these distances.</i></p>		

11	<p>Can the supplier offer a pipette that will comply with the specifications mentioned here? Please provide a brochure as evidence that the specifications have been met.</p> <p><b>One (1)</b> adjustable tip-spacing multichannel pipette is required that should be able to pipette the range of <b>120 – 500 µL</b> and include the channel spacing distance range of <b>10 – 30 mm</b>.</p> <p><i>The actual pipetting range of the pipette may be wider than this, but the desired range (120 – 500 µL) should fall within the range that the pipette on offer can transfer. Similarly, the actual spacing range may be wider than 10 – 30 mm, but the pipette must be able to be set to these distances.</i></p>		
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Please note:

1. Instruments that do not meet the above specifications will not be considered.
2. ARC BTP reserves the right to make purchases to fit the budget.

## APPROVAL OF SPECIFICATIONS

### SENIOR MANAGER RESEARCH: BIOTECHNOLOGY PLATFORM

Comments:

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Approved

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Signed:   
Dr Farai Muchadeyi

Date: 23/06/23