

Overview Pipetting Tips for Liquid Handling Instruments

Lab Automation

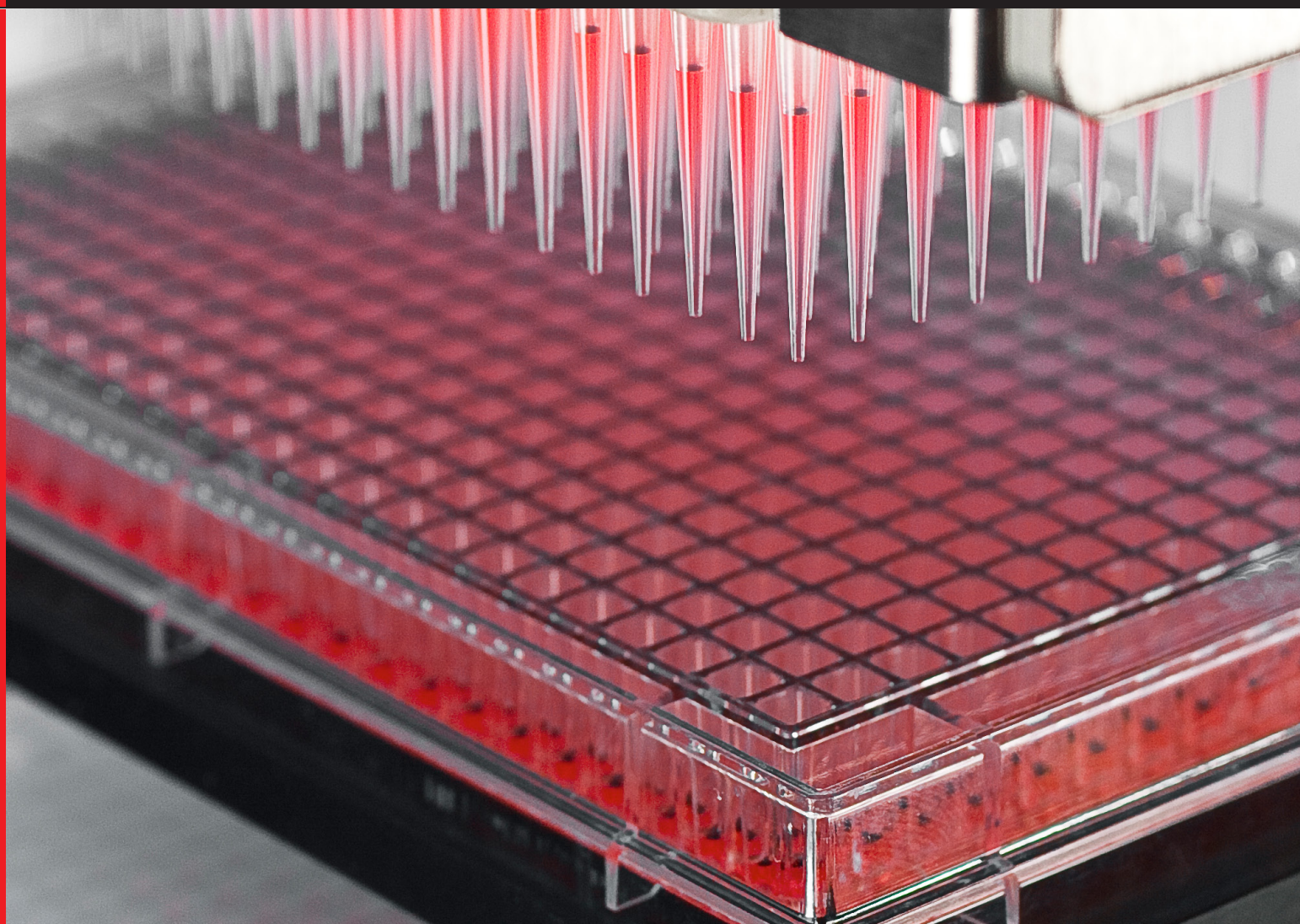
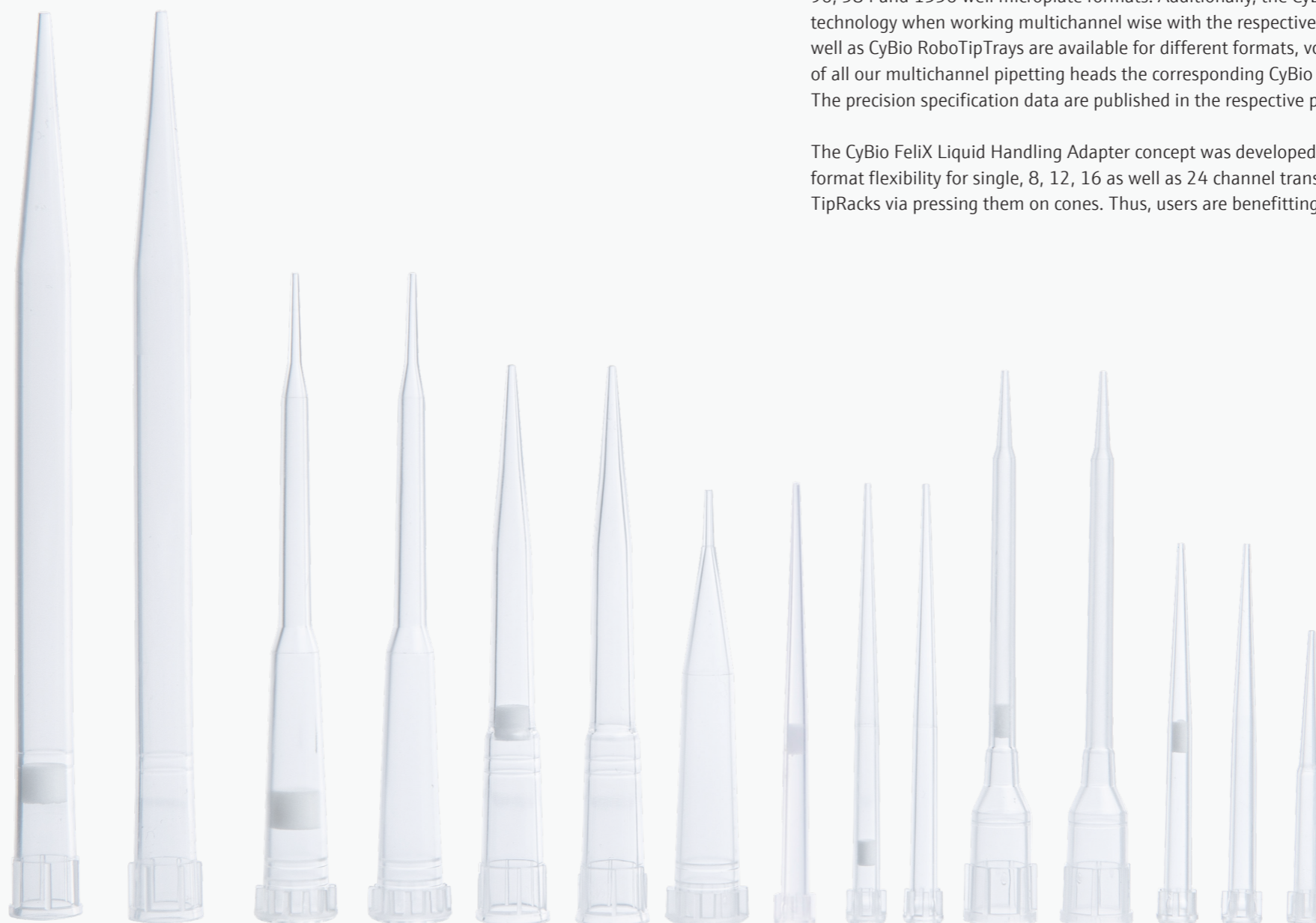


Table of Content

1. Introduction	3
2. Tip Materials and Dimensions	4
3. Product Overview	6
4. Overview Tips	8
4.1 Disposable Tips for CyBio SELMA	8
4.2 Disposable Tips for CyBio Well vario	12
4.3 Non-Disposable Tips for CyBio Well vario	16
4.4 Disposable Tips for CyBio FeliX	17
5. Tip Quality and Certification	24



1. Introduction

Analytik Jena is working continuously to improve the robustness of your application workflows to keep them reliable and safe.

The design goal for Analytik Jena's CyBio liquid handling instruments is to achieve the best pipetting results. Since pipetting tips are an integral part of any liquid handling system, we pay great attention to their design as well as their interaction with the machine – Therefore we provide you with pipetting instruments and pipetting tips from a single source.

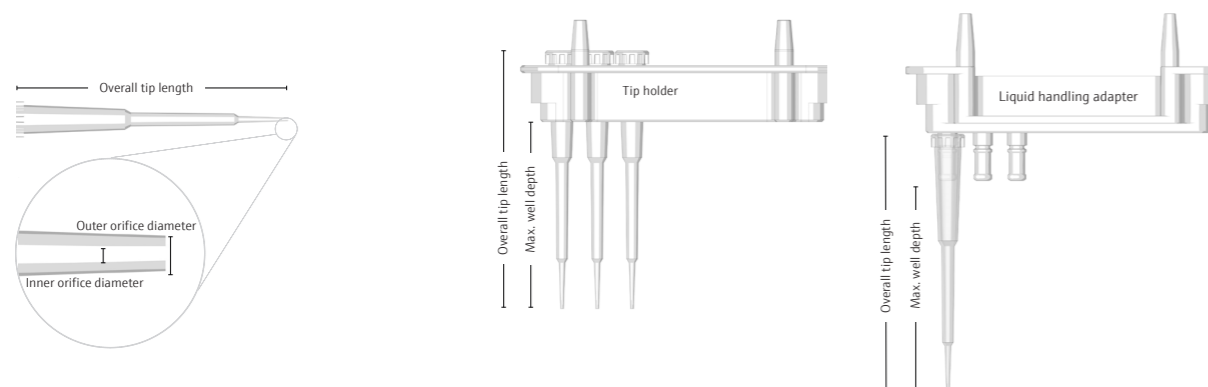
Different applications require different pipetting and tip sealing technologies. Our unique CyBio Tip Sealing Technology for multichannel pipetting heads in the microplate formats 96, 384, and 1536 – sealing each tip via an elastomer mat – is the basis for high precision and repeatability. Centering pins guarantee exact positioning of the complete set of tips to the pipetting head and thus to the labware. This reliably enables liquid transfers over a broad volume range and includes labware with small well diameters such as 1536 well microplates.

This tip sealing technology is relevant when using CyBio TipTrays in the CyBio SELMA and in the CyBio Well vario to address 96, 384 and 1536 well microplate formats. Additionally, the CyBio FeliX multichannel heads 96 and 384 operate with this technology when working multichannel wise with the respective automatically loaded CyBio RoboTipTrays. CyBio TipTrays as well as CyBio RoboTipTrays are available for different formats, volume ranges, and in various tip qualities. For specification of all our multichannel pipetting heads the corresponding CyBio TipTrays or CyBio RoboTipTrays in standard quality are used. The precision specification data are published in the respective product brochures.

The CyBio FeliX Liquid Handling Adapter concept was developed to additionally offer our customer the greatest possible format flexibility for single, 8, 12, 16 as well as 24 channel transfers. This enables automated tip loading from TipBoxes and TipRacks via pressing them on cones. Thus, users are benefitting from high flexibility with best pipetting performance.

2. Tip Materials and Dimensions

Tip dimensions and working lengths:



Disposable tips (CyBio TipTray & CyBio RoboTipTray) for multichannel pipetting (96, 384)

Tip reference number	Volume range** [μL]	Material	Overall tip length** [mm]	Outer orifice diameter** [mm]	Inner orifice diameter** [mm]	Max. well depth** [mm]	Tip holder format	Tip holder	
								CyBio TipTray/Magazine	CyBio RoboTipTray
1/2*	10 - 1000	PP	95.4	1.2	0.7	74.6	96	x	x
3/4*	5 - 250	PP	68	0.8	0.4	49.5	96	x	x
7	5 - 250	PP	45.35	0.8	0.4	26.9	96	x	-
8/9/10*	1 - 60	PP	46	0.7	0.4	27.5	96/384	x	x
13/14*	0.5 - 40	PP	40	0.7	0.4	21.55	96/384	-	x
13/14*	0.5 - 25	PP	40	0.7	0.4	21.55	96/384	x	-
15	0.5 - 10	PP	30.9	0.8	0.4	12.55	96/384	x	-

Disposable tips (CyBio TipRack & CyBio TipBox) for pipetting in single wells, columns and rows

Tip reference number	Volume range** [μL]	Material	Overall tip length** [mm]	Outer orifice diameter** [mm]	Inner orifice diameter** [mm]	Max. well depth** [mm]	Liquid handling adapter format	Tip holder	
								CyBio TipRack	CyBio TipBox
1/2*	10 - 1000	PP	95.4	1.2	0.7	83.6	1/8/12	x	x
5/6*	5 - 250	PP	58.4	0.94	0.48	46.4	1/8/12	-	x
10	1 - 50	PP	46	0.7	0.4	38	1/16/24	-	x
11/12*	1 - 50	PP	58.4	0.76	0.38	46.4	1/8/12	-	x

Non-disposable tips (CyBio Fixed Tip Magazine) for multichannel pipetting (384, 1536)

Tip reference number	Volume range** [μL]	Material	Overall tip length** [mm]	Outer orifice diameter** [mm]	Inner orifice diameter** [mm]	Max. well depth** [mm]	Tip holder format	Tip holder	
								CyBio Fixed Tip Magazine	CyBio RoboTipTray
16	0.1 - 1	Stainless steel	27	0.64	0.33	14	384/1536	x	-
17	0.1 - 1	Ceramic	27	0.64	0.33	14	384/1536	x	-

Non-disposable capillaries (Ceramic Capillary Magazine) for capillary head (96, 384)

Tip reference number	Volume range** [nL]	Material	Overall tip length** [mm]	Outer orifice diameter** [mm]	Inner orifice diameter** [mm]	Max. well depth** [mm]	Tip holder format	Tip holder	
								CyBio Fixed Tip Magazine	CyBio RoboTipTray
18	250	Ceramic	27.4	0.35	0.23	16	96/384	x	-
19	100	Ceramic	27.4	0.266	0.146	16	96/384	x	-
20	50	Ceramic	27.4	0.234	0.117	16	96/384	x	-

* = equal tip type

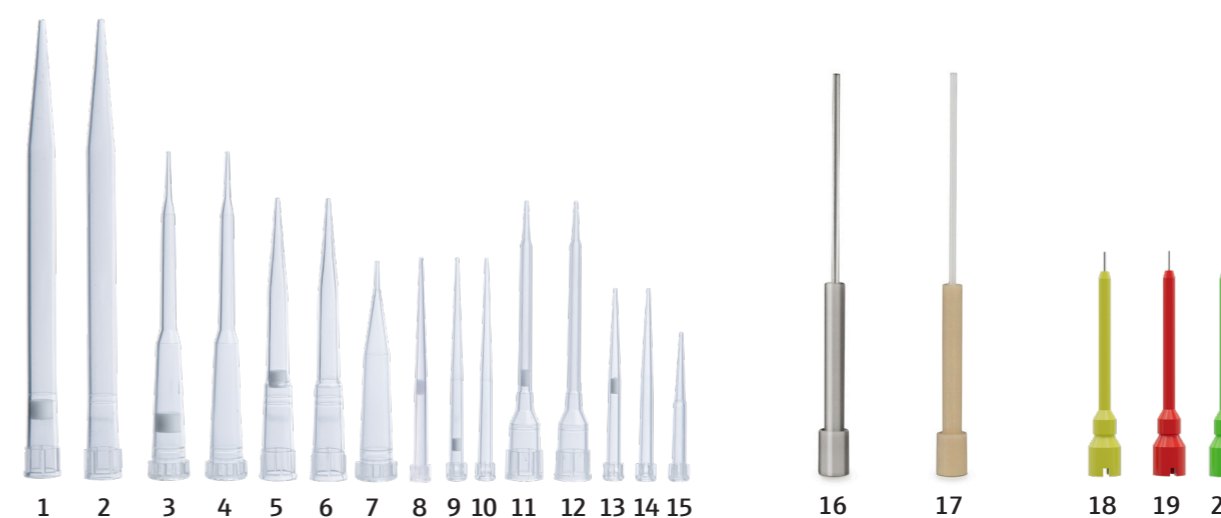
** = all values without indicating tolerances

PP = Polypropylene

Tip Characteristics

Disposable tips***

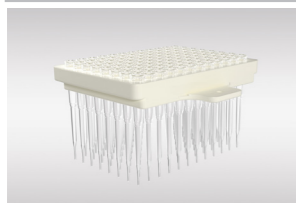
Non-disposable tips***



*** = This overview and all tips shown on further pages are not to scale.

3. Product Overview

CyBio TipTray 96 1000/250/60/25/10 µL

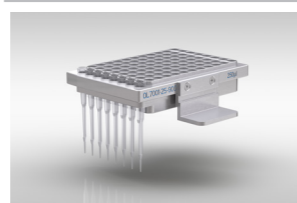


For highly parallel 96 channel pipetting

- Usage for CyBio SELMA and CyBio Well vario*

*except CyBio TipTray 96/1000 µL

8 Channel Magazine 1000/250/60/25 µL (metal)



For 8 channel column pipetting

- Usage for CyBio SELMA

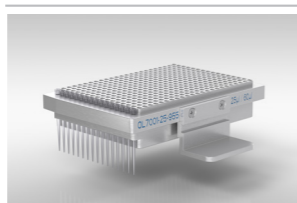
CyBio TipTray 384 60/25/10 µL



For highly parallel 384 channel pipetting

- Usage for CyBio SELMA and CyBio Well vario

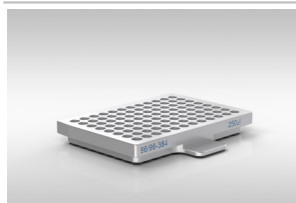
16 Channel Magazine 60/25 µL (metal)



For 16 channel column pipetting

- Usage for CyBio SELMA

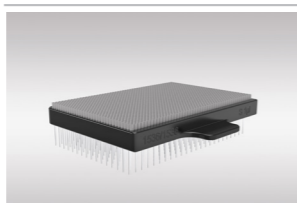
Tip Magazine 96 1000/250/60/25/10 µL (metal)



For highly parallel 96 channel pipetting

- Usage for CyBio SELMA and CyBio Well vario

Fixed Tip Magazine 1536/384 1 µL



For highly parallel pipetting in 384 and 1536 well format

- Usage for CyBio Well vario in combination with CyBio Well vario 1536 head

Tip Magazine 384 60/25/10 µL (metal)



For highly parallel 384 channel pipetting

- Usage for CyBio SELMA and CyBio Well vario

Capillary Magazine 96/384 250/100/50 nL



For highly parallel pipetting in 96 and 384 well format

- Usage for CyBio Well vario in combination with CyBio Well vario Capillary head

CyBio RoboTipTray 96 1000/250/60/40 µL



For highly parallel 96 channel pipetting

- Usage for CyBio Felix

CyBio TipBox 96 1000 µL SCR



For single channel, 8 channel column and 12 channel row pipetting

- Usage for CyBio Felix

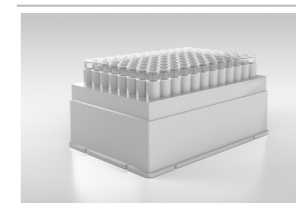
CyBio RoboTipTray 384 60/40 µL



For highly parallel 384 channel pipetting

- Usage for CyBio Felix

TipBox 96 250/50 µL



For single channel, 8 channel column and 12 channel row pipetting

- Usage for CyBio Felix

CyBio RoboTipTray 1-96 1000/250 µL



For individual 1-96 channel pipetting

- Usage for CyBio Felix

CyBio TipBox 192 60 µL r/c



For single channel, 16 channel column and 24 channel row pipetting

- Usage for CyBio Felix

CyBio TipRack 96 1000 µL



For single channel, 8 channel column and 12 channel row pipetting

- Usage for CyBio Felix


4. Overview Tips

4.1 Disposable Tips for CyBio SELMA

Pipetting tips for CyBio SELMA are available in packaging units (PU) with pre-racked CyBio TipTrays and as bulk tips for Tip magazines (metal).

Tips for CyBio SELMA 96/1000 µL

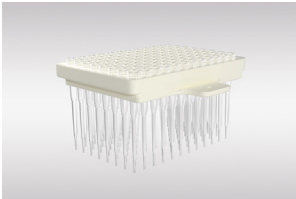

Pipetting tips for 96 channel pipetting and serial dilution using 8 channel magazine for CyBio SELMA 96/1000 µL

CyBio TipTray 96/1000 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	1000 µL	96 tips per TipTray	2	16	OL5022-25-371
	PCR-certified, pre-sterilized	1000 µL	96 tips per TipTray	2	16	OL5022-25-374
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per TipTray	1	16	OL5022-25-379

Note: Tip magazine 96/1000 µL (OL5022-25-112) or 8 channel magazine 1000 µL (OL5022-25-115) can be either filled with tips from CyBio TipRack 96/1000 µL (all qualities) or with tips out of the CyBio TipTray 96/1000 µL (all qualities) optional using Tip transfer tool (OL3396-352-25).

Tips for CyBio SELMA 96/250 µL



Pipetting tips for 96 channel pipetting and serial dilution using 8 channel magazine for CyBio SELMA 96/250 µL

CyBio TipTray 96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	250 µL	96 DW tips per TipTray	4	18	OL3800-25-559-N
	Standard	250 µL	96 DW tips per TipTray	4	36	OL3800-26-559-N
	PCR-certified, pre-sterilized	250 µL	96 DW tips per TipTray	4	18	OL3800-25-759-P
	PCR-certified, pre-sterilized, filter	250 µL	96 DW tips per TipTray	3	18	OL3800-25-959-F
	Standard	250 µL	96 SW tips per TipTray	7	24	OL3800-25-557-N
	PCR-certified, pre-sterilized	250 µL	96 SW tips per TipTray	7	24	OL3800-25-757-P
	Standard	250 µL	Bulk DW tips	4	2000 tips	OL3800-25-508-B
	Standard	250 µL	Bulk SW tips	7	2500 tips	OL3800-25-507-B

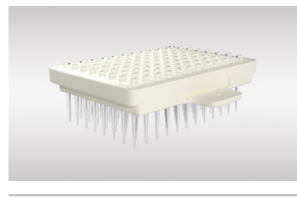

Note: Tip magazine 96/250 µL (OL3391-112-25) or 8 channel magazine (OL7001-25-900) can be either filled with CyBio Tips 250 µL DW; bulk (OL3800-25-508-B) or CyBio Tips 250 µL SW; bulk (OL3800-25-507-B) and tips from CyBio TipTray 96/250 µL (all qualities) optional using Tip transfer tool (OL3396-352-25).

Tips for CyBio SELMA 96/60 µL

Pipetting tips for 96 channel pipetting and serial dilution using 8 channel magazine for CyBio SELMA 96/60 µL

CyBio TipTray 96/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	96 tips per TipTray	10	24	OL3800-25-535-N
	PCR-certified, pre-sterilized	60 µL	96 tips per TipTray	10	24	OL3800-25-735-P
	PCR-certified, pre-sterilized, filter	18 µL	96 tips per TipTray	8	24	OL3800-25-935-F
		45 µL	96 tips per TipTray	9	24	OL3800-25-936-F
	Standard	60 µL	Bulk tips	10	8000 tips	OL3800-25-505-B

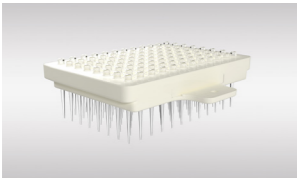

Note: Tip magazine 96/60 µL (OL3384-25-717) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 60 µL bulk (OL3800-25-505-B) and tips from CyBio TipTray 96/60 µL (all qualities) optional using Tip transfer tool (OL3397-25-350) except for CyBio TipTray 96/60 µL, PCR-certified, pre-sterilized, filter 45 µL net (OL3800-25-936-F).

CyBio TipTray 96/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	96 tips per TipTray	14	24	OL3800-25-533-N
	PCR-certified, pre-sterilized	25 µL	96 tips per TipTray	14	24	OL3800-25-733-P
	PCR-certified, pre-sterilized, filter	13 µL	96 tips per TipTray	13	24	OL3800-25-933-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B

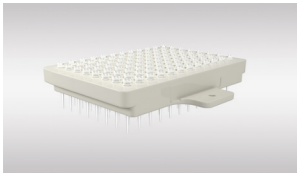
Note: Tip magazine 96/25 µL (OL3397-25-354) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 96/25 µL (all qualities) optional using Tip transfer tool (OL3397-25-350).

Tips for CyBio SELMA 96/25 µL

Pipetting tips for 96 channel pipetting and serial dilution using 8 channel magazine for CyBio SELMA 96/25 µL



CyBio TipTray 96/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	96 tips per TipTray	14	24	OL3800-25-533-N
	PCR-certified, pre-sterilized	25 µL	96 tips per TipTray	14	24	OL3800-25-733-P
	PCR-certified, pre-sterilized, filter	13 µL	96 tips per TipTray	13	24	OL3800-25-933-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B

Note: Tip magazine 96/25 µL (OL3397-25-354) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 96/25 µL (all qualities) optional using Tip transfer tool (OL3397-25-350).



CyBio TipTray 96/10 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	10 µL	96 tips per TipTray	15	24	OL3800-25-532-N
	PCR-certified, pre-sterilized	10 µL	96 tips per TipTray	15	24	OL3800-25-732-P

Tips for CyBio SELMA 384/60 µL

Pipetting tips for 384 channel pipetting and serial dilution using 16 channel magazine for CyBio SELMA 384/60 µL

CyBio TipTray 384/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	384 tips per TipTray	10	24	OL3800-25-515-N
	PCR-certified, pre-sterilized	60 µL	384 tips per TipTray	10	24	OL3800-25-715-P
	PCR-certified, pre-sterilized, filter	18 µL	384 tips per TipTray	8	24	OL3800-25-915-F
		45 µL	384 tips per TipTray	9	24	OL3800-25-916-F
	Standard	60 µL	Bulk tips	10	8000 tips	OL3800-25-505-B

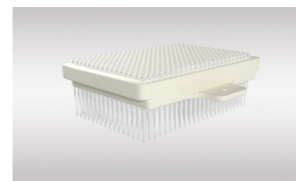

Note: Tip magazine 384/60 µL (OL3384-25-617) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 60 µL bulk (OL3800-25-505-B) and tips from CyBio TipTray 384/60 µL (all qualities) optional using Tip transfer tool (OL3191-350-25) except for CyBio TipTray 384/60 µL, PCR-certified, pre-sterilized, filter 45 µL net (OL3800-25-916-F).

CyBio TipTray 384/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	384 tips per TipTray	14	24	OL3800-25-513-N
	Standard	25 µL	384 tips per TipTray	14	48	OL3800-26-513-N
	PCR-certified, pre-sterilized	25 µL	384 tips per TipTray	14	24	OL3800-25-713-P
	PCR-certified, pre-sterilized, filter	13 µL	384 tips per TipTray	13	24	OL3800-25-913-F
		Standard	25 µL	Bulk tips	14	8000 tips


Note: Tip magazine 384/25 µL (OL3191-116-25) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 384/25 µL (all qualities) optional using Tip transfer tool (OL3191-350-25).

Tips for CyBio SELMA 384/25 µL

Pipetting tips for 384 channel pipetting and serial dilution using 16 channel magazine for CyBio SELMA 384/25 µL

CyBio TipTray 384/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	384 tips per TipTray	14	24	OL3800-25-513-N
	Standard	25 µL	384 tips per TipTray	14	48	OL3800-26-513-N
	PCR-certified, pre-sterilized	25 µL	384 tips per TipTray	14	24	OL3800-25-713-P
	PCR-certified, pre-sterilized, filter	13 µL	384 tips per TipTray	13	24	OL3800-25-913-F
		Standard	25 µL	Bulk tips	14	8000 tips

Note: Tip magazine 384/25 µL (OL3191-116-25) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 384/25 µL (all qualities) optional using Tip transfer tool (OL3191-350-25).

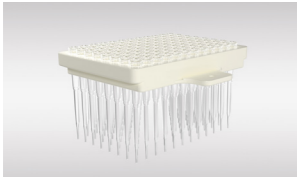

CyBio TipTray 384/10 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	10 µL	384 tips per TipTray	15	24	OL3800-25-512-N
	PCR-certified, pre-sterilized	10 µL	384 tips per TipTray	15	24	OL3800-25-712-P

4.2 Disposable Tips for CyBio Well vario

Pipetting tips for CyBio Well vario are available in packaging units (PU) with pre-racked CyBio TipTrays and as bulk tips for Tip magazines (metal).

Tips for CyBio Well vario pipetting head 96/250 µL



Pipetting tips for 96 channel pipetting

CyBio TipTray 96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	250 µL	96 DW tips per TipTray	4	18	OL3800-25-559-N
	Standard	250 µL	96 DW tips per TipTray	4	36	OL3800-26-559-N
	PCR-certified, pre-sterilized	250 µL	96 DW tips per TipTray	4	18	OL3800-25-759-P
	Standard	250 µL	96 SW tips per TipTray	7	24	OL3800-25-557-N
	PCR-certified, pre-sterilized	250 µL	96 SW tips per TipTray	7	24	OL3800-25-757-P
	Standard	250 µL	Bulk DW tips	4	2000 tips	OL3800-25-508-B
	Standard	250 µL	Bulk SW tips	7	2500 tips	OL3800-25-507-B

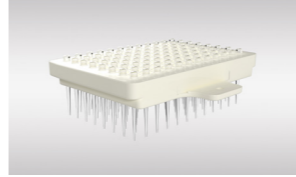

Note: Tip magazine 96/250 µL (OL3391-112-25) or 8 channel magazine (OL7001-25-900) can be either filled with CyBio Tips 250 µL DW; bulk (OL3800-25-508-B) or CyBio Tips 250 µL SW; bulk (OL3800-25-507-B) and tips from CyBio TipTray 96/250 µL (all qualities) optional using Tip transfer tool (OL3396-352-25).

Tips for CyBio Well vario pipetting head 96/60 µL

Pipetting tips for 96 channel pipetting

CyBio TipTray 96/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	96 tips per TipTray	10	24	OL3800-25-535-N
	PCR-certified, pre-sterilized	60 µL	96 tips per TipTray	10	24	OL3800-25-735-P
	PCR-certified, pre-sterilized, filter	18 µL	96 tips per TipTray	8	24	OL3800-25-935-F
	Standard	45 µL	96 tips per TipTray	9	24	OL3800-25-936-F
	Standard	60 µL	Bulk tips	10	8000 tips	OL3800-25-505-B



Note: Tip magazine 96/60 µL (OL3384-25-717) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 60 µL bulk (OL3800-25-505-B) and tips from CyBio TipTray 96/60 µL (all qualities) optional using Tip transfer tool (OL3397-25-350) except for CyBio TipTray 96/60 µL, PCR-certified, pre-sterilized, filter 45 µL net (OL3800-25-936-F).

CyBio TipTray 96/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	96 tips per TipTray	14	24	OL3800-25-533-N
	PCR-certified, pre-sterilized	25 µL	96 tips per TipTray	14	24	OL3800-25-733-P
	PCR-certified, pre-sterilized, filter	13 µL	96 tips per TipTray	13	24	OL3800-25-933-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B

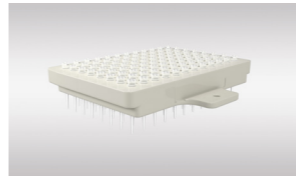
Note: Tip magazine 96/25 µL (OL3397-25-354) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 96/25 µL (all qualities) optional using Tip transfer tool (OL3397-25-350).

Tips for CyBio Well vario pipetting head 96/25 µL

Pipetting tips for 96 channel pipetting

CyBio TipTray 96/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	96 tips per TipTray	14	24	OL3800-25-533-N
	PCR-certified, pre-sterilized	25 µL	96 tips per TipTray	14	24	OL3800-25-733-P
	PCR-certified, pre-sterilized, filter	13 µL	96 tips per TipTray	13	24	OL3800-25-933-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B



Note: Tip magazine 96/25 µL (OL3397-25-354) or 8 channel magazine 25 µL/60 µL (OL7001-25-940) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 96/25 µL (all qualities) optional using Tip transfer tool (OL3397-25-350).

CyBio TipTray 96/10 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	10 µL	96 tips per TipTray	15	24	OL3800-25-532-N
	PCR-certified, pre-sterilized	10 µL	96 tips per TipTray	15	24	OL3800-25-732-P

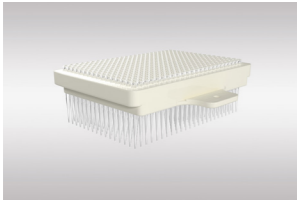

Note: All qualities from CyBio TipTray 96/10 µL can be transferred in Tip magazine 96/96-1536/10 µL (OL3397-25-351) optional using Tip transfer tool (OL3397-25-350).

Tips for CyBio Well vario pipetting head 384/60 µL

Pipetting tips for 384 channel pipetting

CyBio TipTray 384/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	384 tips per TipTray	10	24	OL3800-25-515-N
	PCR-certified, pre-sterilized	60 µL	384 tips per TipTray	10	24	OL3800-25-715-P
	PCR-certified, pre-sterilized, filter	18 µL	384 tips per TipTray	8	24	OL3800-25-915-F
		45 µL	384 tips per TipTray	9	24	OL3800-25-916-F
	Standard	60 µL	Bulk tips	10	8000 tips	OL3800-25-505-B



Note: Tip magazine 384/60 µL (OL3384-25-617) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 60 µL bulk (OL3800-25-505-B) and tips from CyBio TipTray 384/60 µL (all qualities) optional using Tip transfer tool (OL3191-350-25) except for CyBio TipTray 384/60 µL, PCR-certified, pre-sterilized, filter 45 µL net (OL3800-25-916-F).

CyBio TipTray 384/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	384 tips per TipTray	14	24	OL3800-25-513-N
	Standard	25 µL	384 tips per TipTray	14	48	OL3800-26-513-N
	PCR-certified, pre-sterilized	25 µL	384 tips per TipTray	14	24	OL3800-25-713-P
	PCR-certified, pre-sterilized, filter	13 µL	384 tips per TipTray	13	24	OL3800-25-913-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B


Note: Tip magazine 384/25 µL (OL3191-116-25) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 384/25 µL (all qualities) optional using Tip transfer tool (OL3191-350-25).

Tips for CyBio Well vario pipetting head 384/25 µL

Pipetting tips for 384 channel pipetting

CyBio TipTray 384/25 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	25 µL	384 tips per TipTray	14	24	OL3800-25-513-N
	Standard	25 µL	384 tips per TipTray	14	48	OL3800-26-513-N
	PCR-certified, pre-sterilized	25 µL	384 tips per TipTray	14	24	OL3800-25-713-P
	PCR-certified, pre-sterilized, filter	13 µL	384 tips per TipTray	13	24	OL3800-25-913-F
	Standard	25 µL	Bulk tips	14	8000 tips	OL3800-25-503-B

Note: Tip magazine 384/25 µL (OL3191-116-25) or 16 channel magazine 25 µL/60 µL (OL7001-25-955) can be either filled with CyBio Tips 25 µL bulk (OL3800-25-503-B) and tips from CyBio TipTray 384/25 µL (all qualities) optional using Tip transfer tool (OL3191-350-25).

CyBio TipTray 384/10 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	10 µL	384 tips per TipTray	15	24	OL3800-25-512-N
	PCR-certified, pre-sterilized	10 µL	384 tips per TipTray	15	24	OL3800-25-712-P

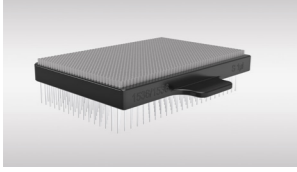
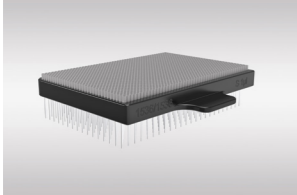
Note: All qualities from CyBio TipTray 384/10 µL can be transferred in Tip magazine 384/384-1536/10 µL (OL3191-118-25) optional using Tip transfer tool (OL3191-350-25).

4.3 Non-Disposable Tips for CyBio Well vario

Pipetting tips and capillaries for CyBio Well vario are available in packing units (PU) with pre-racked magazines.

Fixed Tip Magazine for CyBio Well vario pipetting head 1536/8 µL

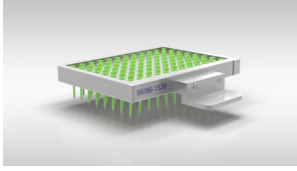
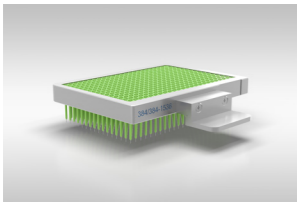
Pipetting tips for 384 and 1536 channel pipetting

Fixed Tip Magazine	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Stainless Steel	1 µL	384 tips per Tip Magazine	16	1	OL5021-25-239
	Ceramic	1 µL	384 tips per Tip Magazine	17	1	OL5021-25-236
	Stainless Steel	1 µL	1536 tips per Tip Magazine	16	1	OL5021-25-289
	Ceramic	1 µL	1536 tips per Tip Magazine	17	1	OL5021-25-286

Note: Replacement tips for 384 and 1536 tip magazine: OL5021-25-202 Fixed Tips 1536/1 µL Steel and OL5021-25-206 Fixed Tips 1536/1 µL Ceramic.

Ceramic Capillary Magazine for CyBio Well vario Capillary head

Capillaries for 96, 384 channel format

Capillary Magazine	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Ceramic	250 nL	96 tips per Tip Magazine	18	1	OL3387-25-330
	Ceramic	100 nL	96 tips per Tip Magazine	19	1	OL3387-25-325
	Ceramic	50 nL	96 tips per Tip Magazine	20	1	OL3387-25-320
	Ceramic	250 nL	384 tips per Tip Magazine	18	1	OL3387-25-310
	Ceramic	100 nL	384 tips per Tip Magazine	19	1	OL3387-25-305
	Ceramic	50 nL	384 tips per Tip Magazine	20	1	OL3387-25-300

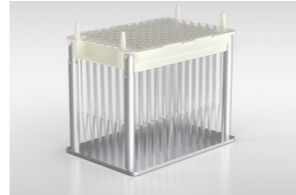
Note: Replacement capillaries for 96 and 384 capillary magazine: OL3387-11-102 Replacement Ceramic Capillaries; 250 nL, OL3387-11-101 Replacement Ceramic Capillaries; 100 nL and OL3387-11-100 Replacement Ceramic Capillaries; 50 nL; Capillary adjustment magazine 96 (OL3387-25-129) or Capillary adjustment magazine 384 (OL3387-25-119) as a support tool for height adjustment available.

4.4 Disposable Tips for CyBio Felix

Pipetting tips for CyBio Felix are available in packaging units (PU) with pre-racked CyBio RoboTipTrays, CyBio TipRacks and CyBio TipBoxes.

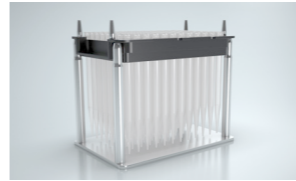
Tips for CyBio Felix Head R 96/1000 µL

Pipetting tips for 96 channel pipetting

CyBio RoboTipTray 96/1000 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	1000 µL	96 tips per RoboTipTray	2	16	OL3810-25-871-N
	PCR certified, pre-sterilized	1000 µL	96 tips per RoboTipTray	2	16	OL3810-25-874-P
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per RoboTipTray	1	16	OL3810-25-879-F


Note: Usable with Support 97 mm (OL3317-11-105)

Pipetting tips for individual 1-96 channel pipetting

CyBio RoboTipTray 1-96/1000 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	PCR-certified	1000 µL	96 tips per RoboTipTray	2	16	OL3811-25-539-N
	PCR-certified, pre-sterilized	1000 µL	96 tips per RoboTipTray	2	16	OL3811-25-639-S
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per RoboTipTray	1	16	OL3811-25-939-F


Note: CyBio RoboTipTray 1-96/1000 µL (OL3810-24-023) can be either filled with tips from CyBio TipRack 96/1000 µL (all qualities) or with tips out of the CyBio RoboTipTray 96/1000 µL (all qualities) optional using Tip transfer tool (OL3396-352-25); usable with Support 97 mm (OL3317-11-105).

Pipetting tips for single well, 8 channel column and 12 channel row pipetting using liquid handling adapters

CyBio TipRack 96/1000 µL	Quality	Net Volume	Format	Reference	Racks/PU	Order Number
	PCR-certified	1000 µL	96 tips per TipRack	2	16	OL3811-25-539-N
	PCR-certified, pre-sterilized	1000 µL	96 tips per TipRack	2	16	OL3811-25-639-S
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per TipRack	1	16	OL3811-25-939-F


Note: TipRack 96/1000 µL (OL3317-11-140) can be either filled with tips from CyBio TipRack 96/1000 µL (all qualities) or with tips out of the CyBio RoboTipTray 96/1000 µL (all qualities) optional using Tip transfer tool (OL3396-352-25).

Pipetting tips for single well, 8 channel column and 12 channel row pipetting using liquid handling adapters

CyBio TipBox 96/1000 µL; SCR	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per TipBox	1	10	OL5022-25-579-F



Note: No individual tip pick up possible

Pipetting tips for 96 channel pipetting

CyBio RoboTipTray 96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	250 µL	96 DW tips per RoboTipTray	4	48	OL3810-26-661
	PCR-certified, pre-sterilized	250 µL	96 DW tips per RoboTipTray	4	12	OL3810-25-664
	PCR-certified, pre-sterilized, filter	250 µL	96 DW tips per RoboTipTray	3	12	OL3810-25-669


Note: Usable with Support 97 mm (OL3317-11-105) or Support 70 mm (OL3317-11-110)

Pipetting tips for individual 1-96 channel pipetting

CyBio RoboTipTray 1-96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
						
	Standard	250 µL	Bulk DW tips	4	2000 tips	OL3800-25-508-B


Note: CyBio RoboTipTray 1-96/250 µL (OL3810-24-003) can be manually filled with CyBio Tips 250 µL DW; bulk (OL3800-25-508-B); usable with Support 97 mm (OL3317-11-105) or Support 70 mm (OL3317-11-110).

Pipetting tips for single well, 8 channel column and 12 channel row pipetting using liquid handling adapters

TipBox 96/250 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified, pre-sterilized	250 µL	96 tips per TipBox	6	10	30-102-772
	PCR-certified, pre-sterilized, filter	150 µL	96 tips per TipBox	5	10	30-102-770



Tips for CyBio Felix Head R 96/250 µL

Pipetting tips for 96 channel pipetting

CyBio RoboTipTray 96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	250 µL	96 DW tips per RoboTipTray	4	48	OL3810-26-661
	PCR-certified, pre-sterilized	250 µL	96 DW tips per RoboTipTray	4	12	OL3810-25-664
	PCR-certified, pre-sterilized, filter	250 µL	96 DW tips per RoboTipTray	3	12	OL3810-25-669

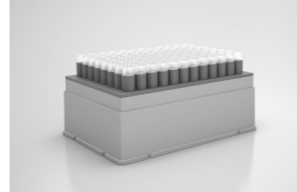
Note: Usable with Support 97 mm (OL3317-11-105) or Support 70 mm (OL3317-11-110)

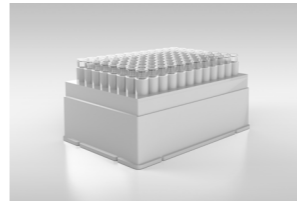
Pipetting tips for individual 1-96 channel pipetting

CyBio RoboTipTray 1-96/250 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
						
	Standard	250 µL	Bulk DW tips	4	2000 tips	OL3800-25-508-B

Note: CyBio RoboTipTray 1-96/250 µL (OL3810-24-003) can be manually filled with CyBio Tips 250 µL DW; bulk (OL3800-25-508-B); usable with Support 97 mm (OL3317-11-105) or Support 70 mm (OL3317-11-110).

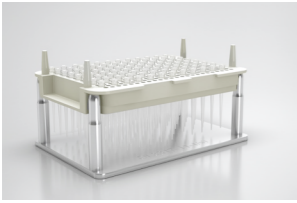
Pipetting tips for single well, 8 channel column and 12 channel row column pipetting using liquid handling adapters

TipBox 96/50 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified, pre-sterilized	250 µL	96 tips per TipBox	6	10	30-102-772
	PCR-certified, pre-sterilized, filter	150 µL	96 tips per TipBox	5	10	30-102-770

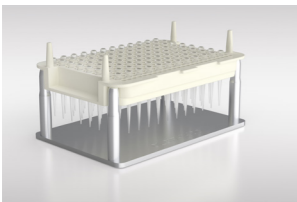
TipBox 96/50 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified	50 µL	96 tips per TipBox	12	10	30-102-856
	PCR-certified, pre-sterilized	50 µL	96 tips per TipBox	12	10	30-102-858
	PCR-certified, pre-sterilized, filter	40 µL	96 tips per TipBox	11	10	30-102-860

Tips for CyBio Felix Head R 96/60 µL

Pipetting tips for 96 channel pipetting

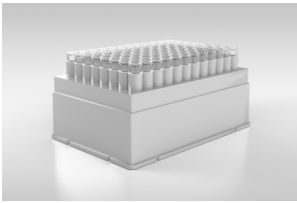
CyBio RoboTipTray 96/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	96 tips per RoboTipTray	10	12	OL3810-25-441
	PCR-certified, pre-sterilized	60 µL	96 tips per RoboTipTray	10	12	OL3810-25-444
	PCR-certified, pre-sterilized, filter	18 µL	96 tips per RoboTipTray	8	12	OL3810-25-449
		45 µL	96 tips per RoboTipTray	9	12	OL3810-25-446

Note: Usable with Support 97 mm (OL3317-11-105), Support 70 mm (OL3317-11-110) or Support 49 mm (OL3317-11-100)

CyBio RoboTipTray 96/40 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	40 µL	96 tips per RoboTipTray	14	12	OL3810-25-431
	PCR-certified, pre-sterilized	40 µL	96 tips per RoboTipTray	14	12	OL3810-25-434


Note: Usable with Support 97 mm (OL3317-11-105), Support 70 mm (OL3317-11-110) or Support 49 mm (OL3317-11-100)

Pipetting tips for single well, 8 channel column and 12 channel row pipetting using liquid handling adapters

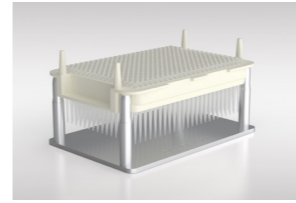
TipBox 96/50 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified	50 µL	96 tips per TipBox	12	10	30-102-856
	PCR-certified, pre-sterilized	50 µL	96 tips per TipBox	12	10	30-102-858
	PCR-certified, pre-sterilized, filter	40 µL	96 tips per TipBox	11	10	30-102-860

Tips for CyBio Felix Head R 384/60 µL

Pipetting tips for 384 channel pipetting


CyBio RoboTipTray 384/60 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	60 µL	384 tips per RoboTipTray	10	12	OL3810-25-241
	PCR-certified, pre-sterilized	60 µL	384 tips per RoboTipTray	10	12	OL3810-25-244
	PCR-certified, pre-sterilized, filter	18 µL	384 tips per RoboTipTray	8	12	OL3810-25-249
		45 µL	384 tips per RoboTipTray	9	12	OL3810-25-246

Note: Usable with Support 97 mm (OL3317-11-105), Support 70 mm (OL3317-11-110) or Support 49 mm (OL3317-11-100)


CyBio RoboTipTray 384/40 µL	Quality	Net Volume	Format	Reference	Trays/PU	Order Number
	Standard	40 µL	384 tips per RoboTipTray	14	12	OL3810-25-231
	PCR-certified, pre-sterilized	40 µL	384 tips per RoboTipTray	14	12	OL3810-25-234

Note: Usable with Support 97 mm (OL3317-11-105), Support 70 mm (OL3317-11-110) or Support 49 mm (OL3317-11-100)

Pipetting tips for single well and 16 channel column pipetting using liquid handling adapters


CyBio TipBox 192/60 µL, columns	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	Standard for column (16 channel)	50 µL	192 tips per TipBox	10	10	OL0008-25-575-N

Pipetting tips for single well and 24 channel row pipetting using liquid handling adapters

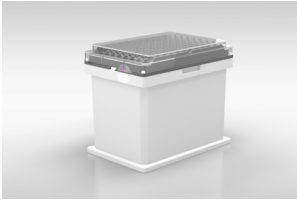
CyBio TipBox 192/60 µL, rows	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	Standard for row (24 channel)	50 µL	192 tips per TipBox	10	10	OL0008-25-585-N

Tips for CyBio Felix CHOICE Head

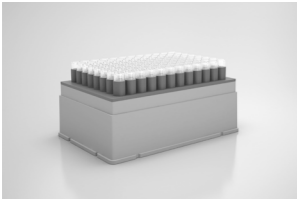
Pipetting tips for high volume single well, 8 channel column and 12 channel row pipetting using CHOICE adapters for 10 µL - 1000 µL

CyBio TipRack 96/1000 µL	Quality	Net Volume	Format	Reference	Racks/PU	Order Number
	PCR-certified	1000 µL	96 tips per TipRack	2	16	OL3811-25-539-N
	PCR-certified, pre-sterilized	1000 µL	96 tips per TipRack	2	16	OL3811-25-639-S
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per TipRack	1	16	OL3811-25-939-F

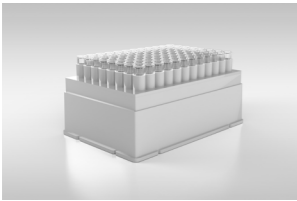
Note: TipRack 96/1000 µL (OL3317-11-140) can be either filled with tips from CyBio TipRack 96/1000 µL (all qualities) or with tips out of the CyBio RoboTipTray 96/1000 µL (all qualities) optional using Tip transfer tool (OL3396-352-25).

CyBio TipBox 96/1000 µL; SCR	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified, pre-sterilized, filter	950 µL	96 tips per TipBox	1	10	OL5022-25-579-F


Note: No individual tip pick up possible

TipBox 96/250 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified, pre-sterilized	250 µL	96 tips per TipBox	6	10	30-102-772
	PCR-certified, pre-sterilized, filter	150 µL	96 tips per TipBox	5	10	30-102-770


Pipetting tips for low volume single well, 8 channel column and 12 channel row pipetting using CHOICE adapters for 1 µL - 50 µL

TipBox 96/50 µL	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	PCR-certified	50 µL	96 tips per TipBox	12	10	30-102-856
	PCR-certified, pre-sterilized	50 µL	96 tips per TipBox	12	10	30-102-858
	PCR-certified, pre-sterilized, filter	40 µL	96 tips per TipBox	11	10	30-102-860

Pipetting tips for low volume single well and 16 channel column pipetting using CHOICE adapters for 1 µL - 50 µL

CyBio TipBox 192/60 µL, columns	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	Standard for column (16 channel)	50 µL	192 tips per TipBox	10	10	OL0008-25-575-N

Pipetting tips for low volume single well and 24 channel row pipetting using CHOICE adapters for 1 µL - 50 µL

CyBio TipBox 192/60 µL, rows	Quality	Net Volume	Format	Reference	Boxes/PU	Order Number
	Standard for row (24 channel)	50 µL	192 tips per TipBox	10	10	OL0008-25-585-N

5. Tip Quality and Certification

Your Quality Advantage – Approved label design and the Certificate of Quality ensure that you can always rely on the consistently high quality of our products.

The pipette tips are manufactured to extremely high quality and purity standards and are designed to meet all specific requirements of your samples. The specified technical data on precision and accuracy of the pipetting systems CyBio FeliX, CyBio Well vario, and CyBio SELMA can only be achieved and guaranteed by using the original CyBio TipTrays, CyBio RoboTipTrays, and Tip Boxes provided by Analytik Jena as intended. The use of non-specified pipette tips is without guarantee.

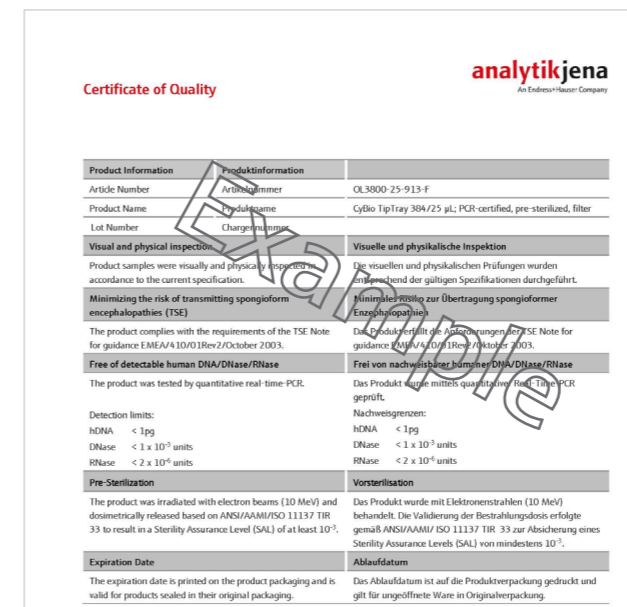
All precision specifications are based on the standard absorbance measurement procedure as described in the pipetting head manual and depend on the selected pipetting head, liquid handling adapter, and tip type. For further details see our respective application note „Photometric and Gravimetric Liquid Handling Check Procedure“ on our website

(www.analytik-jena.com) or www.iso.org (ISO 23783-1:2022 / 2:2022/3:2022).

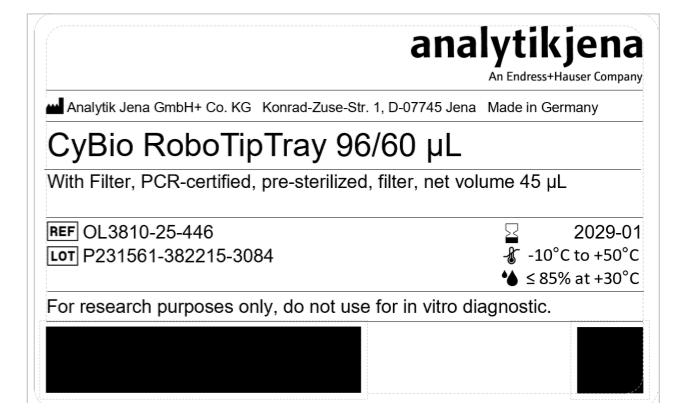
A Certificate of Quality for our disposable tips is available on request. Please send the product name, quality info, order number, and lot number of tips to orders@analytik-jena.com.

Furthermore a label is attached on each packaging. We ensure that all necessary information is provided:

- Producer and address
- Product name
- Different quality informations (e.g. filter, specially racked)
- Order number (REF)
- Lot number of the tips (LOT)
- Use-by date (YYYY-MM)



Example of Certificate of Quality



Example of packaging label

Headquarter

Analytik Jena GmbH+Co. KG
Konrad-Zuse-Str. 1
07745 Jena · Germany

Phone +49 3641 77 70
Fax +49 3641 77 9279
info@analytik-jena.com
www.analytik-jena.com

Pictures: Analytik Jena GmbH+Co. KG
Subjects to changes in design and scope of delivery as well as further technical development.