

Head R 96/60 μ l for CyBio FeliX

The Head R 96/60 μ l offers

- Reliable 96-channel transfers with CyBio RoboTipTrays
- Interchangeable adapters for individual 12- to 1-channel transfers using CyBio TipBoxes
- Flexible applications in the field of Analytics, Drug Discovery, Life Science and Research including assay and kit implementation, compound handling, sample preparation, serial dilutions ...
- Broad choice of accessories
- Usable with different software solutions adapted to customer needs



CyBio FeliX with Head R 96/60 μ l and a CyBio RoboTipTray 96 with 60 μ l tips

The CyBio FeliX Head R 96/60 μ l is a flexible tool especially suited for all sample preparation and compound handling tasks including 12- to 1-channel transfers, serial dilutions and assay as well as kit implementation in 96- and 384-well microplates.

The liquid handling precision is specified from 3–5 μ l with $CV \leq 2\%$ and from > 5 μ l–60 μ l with $CV \leq 1\%$. In the volume range down to 0.5 μ l reliable liquid handling results can be expected with $CV \leq 10\%$ depending on individual liquid handling parameter optimization considering the specific liquid properties.

The attached table summarizes the specified liquid handling precision of the CyBio FeliX Head R 96/60 μ l as well as typical example data which can be achieved with different liquid handling adapters and tip types for different liquid types, pipetting modes and volumes below the specified volume limit. The results are based on our in-house Quality Control standard absorbance measurement procedure using p-Nitrophenol as described in (1) and may differ with other liquids, validation methods or measurement conditions. For low-volume transfers in empty microplates a soft-touch adapter was used.



CyBio FeliX with Head R 96/60 µl and an 8-channel adapter using 50 µl tips



CyBio FeliX with Head R 96/60 µl and a 12-channel adapter using 50 µl tips

Technical Data

Test volume [µl]	Adapter type	Tip type	NaOH wet [CV in %]	NaOH dry [CV in %]	DMSO wet [CV in %]	DMSO dry [CV in %]
* 10	CyBio RoboTipTray 96	CyBio Tips 60 µl	≤ 1	≤ 3	≤ 1	≤ 2
* 3			≤ 2	≤ 4	≤ 2	≤ 3
2			≤ 3	≤ 5	≤ 3	≤ 5
1			≤ 5	≤ 8	≤ 5	≤ 6
0,5			≤ 8	n. r.	≤ 8	≤ 8
10	8-channel adapter (Head R96 8)	CyBio TipBox 96/50 µl	≤ 2	≤ 3	≤ 2	≤ 3
3			≤ 3	≤ 5	≤ 3	≤ 5
2			≤ 5	≤ 8	≤ 5	≤ 8
1			≤ 10	≤ 10	≤ 8	≤ 10
0,5			n. r.	n. r.	≤ 10	n. r.
10	12-channel adapter (Head R96 12)	CyBio TipBox 96/50 µl	≤ 2	≤ 3	≤ 2	≤ 3
3			≤ 3	≤ 5	≤ 3	≤ 5
2			≤ 5	≤ 8	≤ 5	≤ 8
1			≤ 10	≤ 10	≤ 8	≤ 10
0,5			n. r.	n. r.	≤ 10	n. r.

Precision data overview for CyBio FeliX Head R 96/60 µl as described in (1) with different adapter and tip types for various test volumes, liquid types and pipetting modes, n.r. = not recommended because of CV > 10 % and single well variation > 50 %

* Data for specified volume range. Example Data for volume range below the specification limit.

References: (1) Photometric and Gravimetric Liquid Handling Check Procedure to determine the Random Error (Precision) and the Systematic Error (Accuracy) of automated liquid Handling Systems (ALHS), Analytik Jena Application Note [www.CyBio.de / Products / Single to Multichannel Pipettors / CyBi-FeliX/Applications](http://www.CyBio.de/Products/Single%20to%20Multichannel%20Pipettors/CyBi-FeliX/Applications). See also: www.iwa15.org

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Subject to changes in design and scope of delivery as well as further technical development!