

Zebrafish observation

Manual sort work is unnecessary. More than 70% of sorting efficiency. Automatic sort microplate of innovative 96-well.

ZFplate



Easy Method

High Throughput

ZF Plate is a 96 well microplate optimized for drug screening using zebrafish.

In case of the conventional microplate, small zebrafish had been sorted in each wells manually. However, ZF plate is an innovative microplate being able to sort zebrafish automatically.

It can automate the time-consuming work and reduce the sorting time in half.

Additionally, the plate is equipped with a glass bottom plate with excellent optical characteristics enabling more efficient quantitative chemical screening using zebrafish.

※The sort rate is arranged in a horizontal row and, refers to the percentage of individuals that can be taken from the body side.

Work efficiency of the ZF plate

Point.1

Automation of the sorting work

Point.2

Shortening of imaging time

Point.3

Reduction of the image data capacity



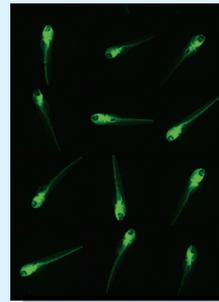
It scans the whole well, and shoot wide range.



imaging and scanning a limited range.

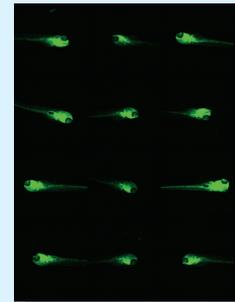
To achieve three efficiency by simply changing the plate.

Images by the high content imager using ZF plate and a conventional microplate



Conventional 96-well microplate

Sort time
Approx. 35 minutes



ZFplate

Sort time
Approx. 15 minutes

No effort

Half the work time

high sorting efficiency

How to use ZF plate

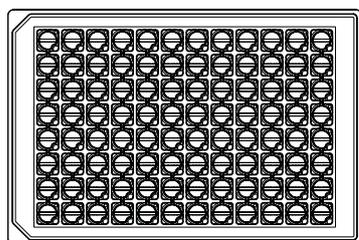
Subject: Anesthetized zebrafish (approx. 3dpf to 6dpf)

– Used items

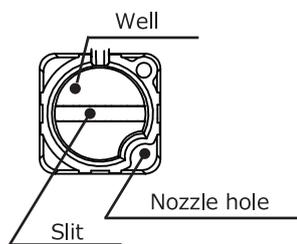
- 1 ZF Plate
- 2 Micro pipette(100μl to 200μl and 1ml, one of each)
- 3 Pipette chip (wide bore type recommended)
- 4 Microplate centrifuge(with spindown function)

Specifications

Model	HDK-ZFA101-02a
Plate size (mm)	127.76(W) × 85.48(L) × 14.35(H)
Weight(g)	without lid:62/with lid:85
Applicable standards	ANSI / SLAS-1 ~ 4 (96well)
Maximum capacity per well (μl)	250
Plate material/color	Polystyrene/black
Bottom material/thickness (mm)	Silica glass · 0.17
Operating temperature	0 ~ 40°C
Storage temperature	4 ~ 25°C
Sterilized Yes / No	No



Top view



Enlarged view

– Procedure

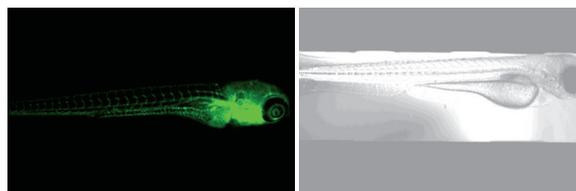
- 1 Put anaesthetized zebrafish into the wells
- 2 Spin down with centrifuge
- 3 Observing with imaging device

Reference

Compatible devices

And the microscope that can micro plate of observation, Brooks, Inc. models fit Matrical microplates is available.

Molecular Devices	ImageXpress Micro XLS ImageXpress Velos
Essen Instruments	IncuCyte
Bio-Rad	Ultramark
GE	IN Cell Analyzer 1000 IN Cell Analyzer 3000
Li-Cor	Aerius
Life Technologies	EVOS Auto Imaging System EVOS FL Imaging System EVOS XL Core Imaging Systems
PerkinElmer	ViewLux
Idea Bio-medical	Hermes



Support for fluorescent[※] and bright field
[※]It was taken by "ImageXpress Micro XLS" of Molecular Devices, LLC.

ZFplate is an automatic sort for microplate screening support device "Workstation".
 Workstation is able to achieve 90% of the sort rate.

See the URL below for the more details regarding the procedure.

<https://www.hashimoto-inc.co.jp/products/zfプレート/>



Manufacturer



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