

ZeptoDECODER and Coded ZeptoCHIPs

Track samples-to-results with individually coded ZeptoCHIPs



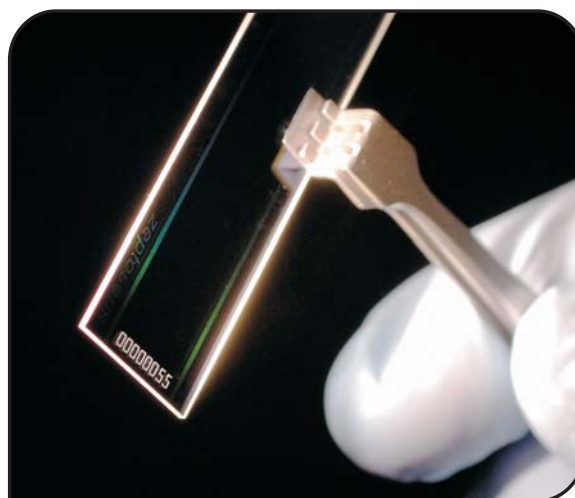
Description

Large scale studies require the traceability of each step throughout the experiment. Researchers can establish an unambiguous link between samples, chips and assay results using our coded ZeptoCHIPs, ZeptoDECODER and the ZeptoREADER decode option upgrade.

Each coded ZeptoCHIP carries an individual 8-digit human and machine readable code. The number is generated via laser engraving inside the glass, making it unremovable and preventing influence on the microarray surface. This code can be read by the ZeptoDECODER prior to spotting in order to link the individual chip with the samples spotted on it. With the decode option for the ZeptoREADER, each chip is identified automatically during readout and thus the link is provided from the result and the assay to the spotted lysate samples. The ZeptoREADER microarray images contain the chip code in their filename and in their header information.

Features and Benefits

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|----------------------------|---|
| • Traceability | clear identification of chips and array content |
| • Workflow integration | link sample information to results |
| • Human & machine readable | easy and quick integration in established assay procedures |
| • Chemically inert code | written inside the glass - no influence on microarray surface |



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Specifications ZeptoDECODER

Code reader	automatic reading of coded ZeptoCHIPs when inserted into slot
Code readout time	~ 2 s
Connection	two USB connectors 0.5 A, required
Data transfer	code transfer to host computer as USB PC keyboard
Software requirements	PC with Windows 2000 or higher
Dimensions	width: 5.5 cm / 2.0 in, depth: 9 cm / 3.5 in, height: 13,6 cm / 5.3 in
Weight	0.68 kg / 1.50 lbs
Ambient conditions	15°C - 30°C, 59°F - 86°F, < 70% humidity, non-condensing

Specifications ZeptoREADER decode option

Compatibility	Upgrade for ZeptoREADER, serial No. 1001 and higher ZeptoCHIP carrier serial No. 7.01 and higher
Illumination	LED 460 nm, outside absorption range of red or green dye to prevent photobleaching

Specifications Coded ZeptoCHIPs

Code	individual 8 digit machine and human readable code chemically inert, inside the glass and non-removable
Code digit height	1.2 mm
Substrate	ZeptoCHIP planar waveguide, 57 mm x 14 mm x 0.7 mm

PN	Description
1055	ZeptoREADER Decode Option
1300	ZeptoDECODER (USB)
2100	ZeptoMARK Chips DDP, coded