sciDROP NANO

PRECISE NANOLITER DISPENSING

Bulk dispensing
Aspirate/Dispense mode
Volume and positioning software controlled
Flexible choice of substrates
From R&D to manufacturing environment

nL - µL

CV < 5%

Broad volume range
Outstanding reproducibility

Any biological content
On all surfaces
On any array design

HIGH REPRODUCIBILITY
UNSURPASSED PRECISION & ACCURACY
Product Description & Benefits

Both bulk dispensing from 1, 5, 10 and 50 ml vials and aspirate/dispose mode fully controlled by our proprietary software.

Long term dispensing stability

Multiplexed assays capture probes handling

- where volumes to be dispensed range between nL to µL
- where lines have to be precisely deposited onto nitrocellulose sheets, lateral flow membranes, dipsticks or other materials.

sciDROP NANO can be implemented in all of our sciFLEXARRAYERS, from R&D to manufacturing

<table>
<thead>
<tr>
<th>Drop volume</th>
<th>25 nl - 1 ul</th>
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</thead>
<tbody>
<tr>
<td>Nano Dispensing Capillaries</td>
<td>Borosilicate glass</td>
</tr>
<tr>
<td>Surface Tension</td>
<td>28 mN/m</td>
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<tr>
<td>Viscosity rate</td>
<td>up to 22 mPa.s</td>
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<tr>
<td>Dispense precision</td>
<td>&lt;5% CV</td>
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<tr>
<td>Positioning accuracy</td>
<td>+/-100 µm</td>
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</tbody>
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Options & Software

Environmental Control | Temperature, Humidity and Dew Point Control
Nanodispensing Channels | On demand
Customization | Customized Holders for application specific substrates
Software | Fiducial recognition and automated target alignment
Services | Advanced application support

Technical information

Dispensing technology | Electromagnetic microvalve volume-on-demand
Dispense volume | 25 nl - 1 ul per drop
Drives | Linear for X/Y & Spindle for Z
Resolution | 1 µm
Accuracy (Absolute Position) | < 10 µm
Precision (Repeat Position) | < 3 µm
Max. speed | 100 cm/sec

Enzyme solution spotted
5x5 array, V=1µL per spot

PCR buffer spotted
V= 2600 nL per spot