



# OptoSelect<sup>®</sup> 3500 Chip and OptoSelect<sup>®</sup> 3500 Chip – Research

## PRODUCT INSERT

### Purpose

The OptoSelect<sup>®</sup> 3500 chip (750-00012) is intended for use on the Beacon<sup>®</sup> and Beacon Select<sup>™</sup> optofluidic systems. The OptoSelect<sup>®</sup> 3500 chip – Research (750-08335) is intended for use only on specially configured Beacon and Beacon Quest<sup>™</sup> optofluidic systems. These nanofluidic chips enable cell import, culture, assay, and export on Beacon systems. The chips are disposable and single-use only. They include Wetting Solution, which is a proprietary solution used to prepare chips for cell loading.

### Kit Contents

Kit 750-00012, OptoSelect 3500 chip for the Beacon<sup>®</sup> and Beacon Select<sup>™</sup> optofluidic systems

| Component                     | Unit Quantity | Volume/ Unit | Uses/ Unit | Storage Conditions | Part Number |
|-------------------------------|---------------|--------------|------------|--------------------|-------------|
| 3500 Chip                     | 1 chip        | 1            | 1          | Room temperature   | 750-00012   |
| Wetting Solution <sup>a</sup> | 2 mL          | 1            | 1          | 4°C                |             |

a. Ships with the chip, but can be ordered separately (Part Number 520-00009).

### Kit Contents

Kit 750-08335, OptoSelect 3500 chip – Research for specially configured Beacon and Beacon Quest<sup>™</sup> systems

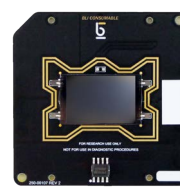
| Component                     | Unit Quantity | Volume/ Unit | Uses/ Unit | Storage Conditions | Part Number |
|-------------------------------|---------------|--------------|------------|--------------------|-------------|
| 3500 Chip – Research          | 1 chip        | 1            | 1          | Room temperature   | 750-08335   |
| Wetting Solution <sup>a</sup> | 2 mL          | 1            | 1          | 4°C                |             |

a. Ships with the chip, but can be ordered separately (Part Number 520-00009).

**FOR RESEARCH USE ONLY. Not for use in diagnostic procedures.**

## Chip Specifications

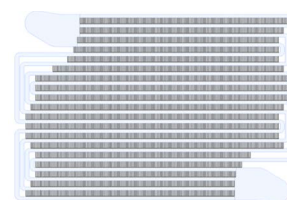
| Feature                      | Specification |
|------------------------------|---------------|
| Number of NanoPen® chambers  | 3,513         |
| Chip volume (channel + pens) | 6.4 µL        |
| Number of channels           | 4             |
| Channel width                | 225 µm        |
| Chip height                  | 40 µm         |
| NanoPen volume               | 0.74 nL       |
| NanoPen width                | 50 µm         |
| NanoPen length               | 370 µm        |



OptoSelect Chip



Single NanoPen Chamber



Chip Map

## Instructions for Use

Instructions for use and handling can be found in the following documents on the Support Portal:

- *Beacon® Optofluidic Systems User Manual (MAN-000003)*
- *Opto® T Cell Profiling Workflows for Beacon® Optofluidic Systems (MAN-08208)*

## Chip Handling, Cleaning, and Disposal

Chips should only be handled using powder-free nitrile gloves and should be held at the corners.

Clean the chips before installing them into the nest using a pre-soaked 99% isopropyl alcohol (IPA) wipe. Fold the IPA wipe three times and wipe the glass surface of the chip from left to right in one smooth, continuous motion while applying moderate downward pressure. Dispose of the wipe after use. Using a new pre-soaked 99% IPA wipe, wipe the surface of the ferrules and dispose of the wipe. Once the IPA has evaporated from the surface of the chip and the ferrules, close the nest lid.

Dispose of chips in a biohazardous waste container according to local, state, and federal regulations.

## Safety

Use standard laboratory safety protocols and always wear appropriate personal protective equipment (PPE). Read and understand the safety data sheets (SDSs) before handling chemicals. To obtain SDSs, email [support@brukercellularanalysis.com](mailto:support@brukercellularanalysis.com).

## Expiration

Wetting Solution and OptoSelect chips are shipped with a minimum of 6 months available shelf life. The expiration date for Wetting Solution is located on the individual vial. The expiration date for the OptoSelect chip is located on the outer chip package label. The Wetting Solution and OptoSelect chips are not under warranty past their expiration dates.

## Legal

The OptoSelect 3500 chip and OptoSelect 3500 chip – Research product insert and its contents are proprietary to Bruker Corporation. This product insert is intended to be used, and should only be used, in connection with the use of Beacon optofluidic systems. No other use is permitted without the prior written consent by an authorized officer of Bruker. No right, title, or interest in any Bruker intellectual property rights are conveyed or granted, expressly or by implication, by this product insert. Review the documents listed in [Instructions for Use](#) PRIOR to using the OptoSelect 3500 chips.

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