



OptoSelect[®] 20k Chip and OptoSelect[®] 20k Chip – Research

PRODUCT INSERT

Purpose

The OptoSelect[®] 20k chip (750-00019) is intended for use on the Beacon[®], negative-pressure Beacon Select[™], and Beacon Quest[™] optofluidic systems. The OptoSelect[®] 20k chip – Research (750-08338) is intended for use only on specially configured Beacon and Beacon Quest optofluidic systems. These nanofluidic chips enable cell import, culture, assay, and export on the 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 750-00019, OptoSelect 20k chip for the Beacon[®], negative-pressure Beacon Select[™], and Beacon Quest[™] optofluidic systems

Component	Unit Quantity	Volume/ Unit	Uses/ Unit	Storage Conditions	Part Number
20k Chip	1 chip	1	1	Room temperature	750-00019
Wetting Solution ^a	2 mL	1	1	4°C	

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

Kit Contents

Kit 750-08338, OptoSelect 20k chip – Research for specially configured Beacon and Beacon Quest systems

Component	Unit Quantity	Volume/ Unit	Uses/ Unit	Storage Conditions	Part Number
20k Chip – Research	1 chip	1	1	Room temperature	750-08338
Wetting Solution ^a	2 mL	1	1	4°C	

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

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

Chip Specifications

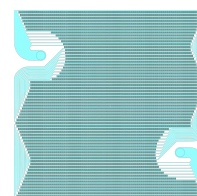
Feature	Specification
Number of NanoPen® chambers	20,004
Chip volume (channel + pens)	13.6 µL
Number of channels	13
Channel width	110 µm
Chip height	40 µm
NanoPen volume	0.32 nL
NanoPen width	40 µm
NanoPen length	200 µm



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® B Discovery User Manual* (MAN-08351)

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.

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 20k chip and OptoSelect 20k 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 the 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 20k chips.

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