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1. Description

1.1 Background information

Components:

10 NanoCollect® Biomedical Cartridges, sterile and single packed in 1 large protective plastic bag with desiccant. This bag must stay sealed when user is not taking a cartridge in or out.

These cartridges are intended for either Bulk Sorting applications, or Single-Cell deposition applications. The Single-Cell cartridges come with one extra component: the needle housing attached to A/B/C outlets for single-cell deposition into 96 or 384 well plates.

Storage:

Store dry, 5°C to 25°C, less than 25% humidity and protected from light within the provided bag. Take care to open plastic bag and take out 1 sterile cartridge at a time per use. Carefully reseal bag for the rest of the cartridges. The expiration date is indicated on the outside of the box. Do not use after this date.

Background information:

These sterile and single-use disposable cartridges are designed to be used only with the WOLF® cell sorter and N1 single-cell dispenser. Their proprietary design allows cells to be aseptically run on the instrument and removed when complete. The liquids from sample and sheath only ever interact and touch the cartridge and associated tubing. Once the cartridge is loaded onto the WOLF Cell Sorter instrument, the cellular and sheath

samples are drawn up through the sample and sheath containers by peristaltic pumps, interrogated by passing by through the laser path and then sorted using piezo-actuated triggered movement. After sorting, the target and non-target cells can be removed from the collection container holder for any downstream applications.

1.2 Uses

This product is to be used only with the WOLF Cell Sorter and N1 Single Cell Dispenser.

Never use any fluids in the sample or sheath that contain the following: organic solvents, high salt content, bleach, ethanol, oils (mineral oil, etc). Use cell culture media, PBS or other typical aqueous based buffers. Do not spray the cartridge or tubing with liquids, only wipe the tubing with lint-free optical grade, sterile isopropanol wipes.

1.3 Technical Specifications

- For single use only, within 6 hours of priming
- Sorting Chip Dimensions:
 - Depth: 70 µm
 - Main channel width: 200 µm
 - Sorting Channel A/C width: 50 µm (150110/150111), 75 µm (150410/150411)
 - Sorting Channel B width: 60 µm (150110/150111), 75 µm (150410/150411)
- Sample volume: min 100 µl (with chase) to 250 µl, and up to 5mL (ability to continually add). Cell concentration: not recommended above 1×10^6 cells/mL for sorting, $>5 \times 10^6$ for analysis only.

1.4 Reagent and Instrument requirements

- WOLF Cell Sorter
- N1 single-cell dispenser
- WOLFViewer software (version 2.4 and above)
- Sterile, 0.22 µm filtered sheath buffer

- Lint free optical grade wipes (isopropanol pre-moistened optical grade lens cleaning wipes)
- Strained sample (37-40 μm for 150110/150111 or up to 50-60 μm for 150410/150411)

2.0 Use of NanoCollect Cartridges

The WOLF can be operated with two types of cartridges depending on experimental design:

- **Sorting** cartridges (150110 and 150410) for bulk sort applications. They can be used for 1- or 2-way sorting into collection tubes.
- **Single Cell** cartridges (150111 and 150411) are used for deposition into 96- or 384-well plates.

2.1 Before Set Up:

1. Prepare sample and sheath ahead of time with proper filters and strainers.
2. Prepare calibration beads.
3. Carefully wipe down instrument front panel and cartridge tubing with optical grade wipes to maintain a clean and dust-free sorting area.

2.2 Protocol:

1. Carefully follow the appropriate set up sections in the **Product Manual** for powering on the WOLF and cartridge selection.
2. Next, follow the Product Manual to carefully insert a cartridge into the WOLF and attach the single cell housing on the N1. Make sure to not smudge the delicate optical sorting chip area.
3. Next, correctly complete Priming and Chip Alignment.
4. Finish the set-up process by completing calculate offsets and calibration before sorting.
5. When you are finished with a cartridge, take care to properly remove it from the WOLF and N1 according to Product Manual instructions. Throw away the cartridge and all attached tubing into a biohazard bin and turn off the instrument(s).

Warranty:

NanoCollect warrants that the Products will perform in substantial conformance with the Documentation and be free of defects, provided that the Products have been used as specified by NanoCollect, for the length of the Warranty Period (defined below). NanoCollect will use reasonable efforts to correct any material nonconformance within ten (10) business days after receipt of written notice of such nonconformance and Customer's provision of any data, output, or other documentation or description of the nonconformance. Unless otherwise specifically agreed to in writing, this warranty is not transferable to any third party, including a subsequent purchaser of the Products, and creates no rights for any third party. If the Products are to be incorporated into a system by Customer or its contractors, this warranty is conditioned upon NanoCollect's review and written approval of the plans for such application.

This limited warranty applies only to the Products used in accordance with this Agreement and the Documentation and does not apply if the Products (a) have been subject to accident, damage, or misuse; or (b) have been opened, repaired, disassembled, reassembled, or modified by a party other than NanoCollect; or (c) have not been maintained in accordance with the Documentation; or (d) if the Product's serial number has been removed or defaced; or (e) have been incorporated into a system without NanoCollect's review and written approval.

NanoCollect does not warrant that the Product will meet Customer's specific needs, industry requirements, be error-free, or operate without interruption. The remedies in this Section are the sole and exclusive remedies provided to Customer by NanoCollect relating to the Product.

NanoCollect's warranty obligations are subject to Customer's compliance with the following procedures: Upon identification of a defect covered under the NanoCollect warranty, Customer will notify NanoCollect technical support of the serial number of the Product and a description of the problem or defect.

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