

ddPCR™ Droplet Reader Oil EcoTank for Probes

Catalog #	Description
12019215	ddPCR Droplet Reader Oil EcoTank for Probes, 750 ml

For research purposes only.

Introduction

EcoTanks are high-capacity reservoirs that you can use instead of individual oil and waste bottles in your QX200™ Droplet Reader. The ddPCR Droplet Reader Oil EcoTank for Probes distributes droplet reader oil and collects waste generated by the instrument into a single partitioned container. The EcoTank can be used to read up to 50 plates. It ensures floating waste droplets remain on the waste side of the bottle while the droplet reader oil can recirculate through the instrument for another droplet reading cycle.

Usage Advisories

Note the following when using the Droplet Reader Oil EcoTank for Probes:

- Do not add bleach to the EcoTank before installation or while it is installed in the instrument. You can add bleach after you remove the EcoTank from the instrument and before storage or disposal
- The unused EcoTank is stable for up to 12 months at room temperature (25°C)
- The EcoTank must be replaced after 6 months of use
- The EcoTank for Probes is not compatible with QX200 ddPCR EvaGreen® Supermix (catalog #1864033, 1864034, 1864035, 1864036)
- Do not reuse a spent EcoTank

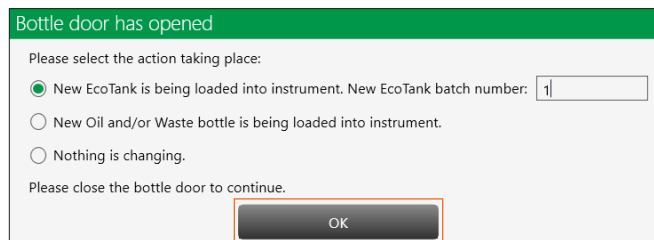
Installing an EcoTank in the QX200 Droplet Reader

Complete the steps in the following sections to set up and use an EcoTank in your QX200 Droplet Reader.

To install a new EcoTank bottle:

- Open QX Manager Software.
- Open the reagent door on the left side of the QX200 Droplet Digital™ PCR System and place an EcoTank in front of the currently installed oil bottles.
- Remove the caps from the EcoTank.
- Move the caps attached to the instrument from the currently installed bottles to the EcoTank.
- Cap and remove the currently installed bottles.

- Place the EcoTank in the bottle tray. Maintain the orientation to prevent twisting of the oil lines.
- Once the bottle door has opened, QX Manager Software will prompt you to select the action taking place. Select **New EcoTank is being loaded into instrument**. Then enter the batch number and click **OK**.



QX Manager displays the EcoTank for the droplet reader and waste oils and the number of plates remaining.



Important: If the instrument has been idle for more than a week, you must prime the instrument before running a plate.

Managing Waste

You must apply standard Safety Data Sheet (SDS) and Occupational Safety and Health Administration (OSHA) practices when handling and disposing of generated waste. A typical waste profile should contain the following:

Chemical Name	Weight, %
Fluorinated fluids*	>50*
Water*	<50*
Bleach*	<10*
Other materials (proteins, nucleic acids, fluorescent dye)*	<10*

* Chemical identities and exact percentages withheld as trade secrets.

Bio-Rad droplet generation and reader fluids are based on fluorinated hydrocarbon chemistry and should be disposed of in accordance with institutional, state, and local regulations. Avoid release to the environment and prevent entry into sewer systems or bodies of water. As a disposal alternative, incinerate in a permitted high-temperature waste incineration facility.

These nonflammable fluids are inert and have a low environmental impact and low toxicity.

Toxicological Information

Chemical name: (mixture)

Oral LD50: >5,000 mg/kg (rat)

Dermal LC50: >5,000 mg/kg (rabbit)

Inhalation LD50: >8,838 ppm (rat/8-hr)

Ecological Information

Acute aquatic hazard: LC50 > 500 mg/L (96-hr/static; *Pimephales promelas*/fathead minnow)

Chronic aquatic hazard: No information available (Globally Harmonized System of Classification and Labeling of Chemicals [GHS] Chronic IV)

Disposing of EcoTank Waste

When QX Manager Software indicates 50 plates have been run, you must replace the spent EcoTank. After removing the EcoTank from the instrument, you can install a new EcoTank or reinstall the standard two-bottle configuration.

If the EcoTank is removed before 50 plates are run, discard the EcoTank and spent oil in accordance with institutional, state, and local regulations.

To remove and dispose of the EcoTank:

1. Uncap one side of the EcoTank and take it to the liquid waste receptacle.
2. Hold the uncapped opening slightly lower than the capped opening and slowly pour out as much of the contents from the uncapped side as possible.
3. Return the bottle to its upright position to allow the fluid trapped in the closed-cap side of the bottle to move to the open-cap side, and repeat the process.
4. Pour the entire contents of the spent bottle into the waste receptacle.
5. Place the cap on the empty EcoTank and then discard per waste disposal regulations.

Cleaning the EcoTank Waste Cap

Repeat the following process once per month at a minimum.

1. Dampen a lint-free wipe with a fresh 10% bleach solution.
2. Remove the cap on the waste side of the EcoTank.
3. Wipe down the waste cap along the threading and the inside of the cap anywhere microbial growth might occur.
4. If the cleaning leaves excess liquid on the cap, dry the cap using a dry lint-free wipe.
5. After the cleaning is done and the cap is dry, place and tighten the cap on the EcoTank.

Ordering Information

The ddPCR Droplet Reader Oil EcoTank for Probes is formulated for use with the Bio-Rad supermixes specified below.

Catalog #	Description
12019215	ddPCR Droplet Reader Oil EcoTank for Probes, 750 ml
12005909	ddPCR Multiplex Supermix
12005910	
12005911	
1863010	ddPCR Supermix for Probes
1863026	
1863027	
1863028	
1863023	ddPCR Supermix for Probes (No dUTP)
1863024	
1863025	
1864021	One-Step RT-ddPCR Advanced Kit for Probes
1864022	

Contacting Technical Support

The Bio-Rad Technical Support department in the U.S. is open Monday through Friday, 5:00 AM to 5:00 PM, Pacific Time.

Phone: 1-800-424-6723, option 2

Email: Support@bio-rad.com (U.S./Canada Only)

For technical assistance outside the U.S. and Canada, contact your local technical support office or click the Contact Us link at bio-rad.com.

Visit bio-rad.com/EcoTank for more information.

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