

January 2018

Product Sheet

PyroMark[®] Q24 Cartridge

Version 3

IVD For in vitro diagnostic use.

For dispensing nucleotides and reagents on the PyroMark Q24 MDx



REF 979302 **MAT** 1112181EN



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Storage

PyroMark Q24 Cartridges (cat. no. 979302) should be stored at room temperature (15–25°C). We recommend storing cartridges in the PyroMark Q96 HS Tip Holder Box (cat. no. 9019074) to protect them from dust and sunlight.

Intended use

PyroMark Q24 Cartridges are to be filled with PyroMark Gold Q24 Reagents, which can be purchased separately (cat. no. 971802) or are included in dedicated Pyrosequencing[®] test kits. The cartridges are placed in the dispensing unit of the PyroMark Q24 MDx for use in in vitro diagnostic Pyrosequencing applications.

Symbols



Contains reagents for <N> tests

COMP

Components



Use by

CONT

Contains

IVD	In vitro diagnostic medical device	NUM	Number
REF	Catalog number		Temperature limitations
LOT	Lot number		Legal manufacturer
MAT	Material number		Consult instructions for use
	Keep away from (sun)light	INSTRUM-PARAM	Instrument parameters
METHOD	Method settings	GTIN	Global trade item number

Product use limitations

This product is to be used only by personnel specially instructed and trained in in vitro diagnostics and on the PyroMark Q24 MDx system. All operations must be performed according to PyroMark Q24 MDx system instructions, as provided through dialog messages appearing on the screen of the PyroMark Q24 MDx, the associated user manuals, handbooks, and technical support from QIAGEN, and within the limits set by the technical specifications. Materials for sample preparation before Pyrosequencing analysis are not included in the product. The product is intended solely for use on the PyroMark Q24 MDx system. Strict compliance with the instrument user manual and this product sheet is required for optimal results. Attention should be paid to expiration dates and storage conditions printed on the box and labels of all components. Do not use expired or incorrectly stored components. Results from the PyroMark Q24 MDx system must be interpreted within the context of all relevant clinical and laboratory findings.

Quality control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of PyroMark Q24 Cartridges is tested against predetermined specifications to ensure consistent quality.

Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate safety data sheets (SDSs). These are available online in convenient and compact PDF format at www.qiagen.com/safety where you can find, view, and print the SDS for each QIAGEN kit and kit component.

WARNING**Sharp needles**

Do not touch the needles at the bottom of the reagent cartridge.

(W1)

Important points before starting

- PyroMark Q24 Cartridges must be handled with care to avoid personal injury and damage to the needles.
- Handled correctly, a PyroMark Q24 Cartridge retains accuracy for a total of 30 runs.
- For protection, PyroMark Q24 Cartridges are shipped with needles capped. Remove the cap before using the cartridge for the first time. We do not recommend recapping the needles since replacing and removing the cap may damage the needles.
- We recommend cleaning the cartridge before using it for the first time, and also if it has not been used in 4 weeks or longer, to remove any particles that may have accumulated.

Filling the PyroMark Q24 Cartridge

1. Allow the reagents and the cartridge to reach ambient temperature (20–25°C).
2. Reconstitute the enzyme and substrate mixtures as described in the *PyroMark Gold Q24 Reagents Handbook*.
3. Place the PyroMark Q24 Cartridge with the label facing you.
4. Pipet the reagents into the PyroMark Q24 Cartridge according to Figure 1.
Make sure that no air bubbles are transferred from the pipet to the cartridge.

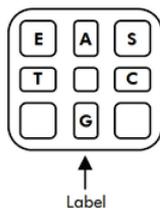


Figure 1. Illustration of the PyroMark Q24 Cartridge seen from above. Add enzyme mixture (E), substrate mixture (S), and nucleotides (A, T, C, G) according to the volume information given in the Pre Run information report, found in the “Tools” menu at run setup.

Starting a Pyrosequencing run

1. Choose the instrument method that corresponds to the cartridge to be used. See Section 5.2.4 “Managing instrument methods” of the *PyroMark Q24 MDx User Manual* for detailed instructions.
Note: The method number printed on the cartridge label corresponds to specific method settings provided at www.qiagen.com/PyroMarkInstrumentMethods/Q24MDx.
2. Before placing the filled reagent cartridge into the PyroMark Q24 MDx instrument, make sure that there is no liquid on the outside of the needles since this will result in an incorrect volume of reagent being dispensed.

- Place the cartridge and PyroMark Q24 Plate with the samples to be analyzed into the PyroMark Q24 MDx instrument (see the *PyroMark Q24 MDx User Manual*).
- Start the run.

Cleaning the PyroMark Q24 Cartridge

If the cartridge is to be reused, it must be cleaned immediately after use.

- Discard any solutions remaining in the PyroMark Q24 Cartridge.
- Rinse the PyroMark Q24 Cartridge 4 times with high-purity water.
- Spray the outside of the needles with high-purity water.
- Check that the cartridge needles are not blocked or damaged. For detailed instructions see Section 5.5.5 “After the run” of the *PyroMark Q24 MDx User Manual*.
- When all needles have been rinsed and checked, discard the water and let the cartridge dry on a lint-free tissue.

Note: Before using the cartridge, make sure that the needles are dry. Do not dry the needles with a tissue. Liquid droplets, lint, or particles that remain on needle tips will affect cartridge performance.

- Once dry, store the cartridge in the PyroMark Q96 HS Tip Holder Box.

Ordering information

Product	Contents	Cat. no.
PyroMark Q24 Cartridge (3)	Cartridge for dispensing nucleotides and reagents	979302
PyroMark Q96 HS Tip Holder Box	Storage box for PyroMark tips and cartridges	9019074

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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