240 County Road Ipswich, MA 01938-2723 Tel 978-927-5054 Fax 978-921-1350 www.neb.com info@neb.com

New England Biolabs Product Specification

Product Name: Monarch® Spin gDNA Extraction Kit

Catalog #: T3010S/L

Kit Components: Monarch® gDNA Tissue Lysis Buffer (T3011)

Monarch® gDNA Cell Lysis Buffer (T3012)
Monarch® gDNA Blood Lysis Buffer (T3013)
Monarch® gDNA Binding Buffer (T3014)
Monarch® gDNA Wash Buffer (T3015)
Monarch® gDNA Elution Buffer (T3016)
Monarch® Spin Columns S2C (T3017)
Proteinase K, Molecular Biology Grade (P8200)

Monarch® RNase A (T3018)

Monarch® Spin Collection Tubes (T2118)

Shelf Life: 24 months
Storage Temp: 25°C

Specification Version: PS-T3010S/L v4.0
Effective Date: 21 Aug 2024

Assay Name/Specification (minimum release criteria)

Functional Testing (Blood Cell Lysis Buffer, Monarch®) - Genomic DNA is purified from 8 samples of whole pig blood, with $\geq 2 \mu g$ of gDNA being recovered in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.

Functional Testing (Cell Lysis Buffer, Monarch®) - Genomic DNA is purified from 8 individual aliquots cultured human cells (10^6 cells/aliquot), resulting in ≥ 3 µg of gDNA being recovered in $\geq 80\%$ of the samples. OD 260/280 and 260/230 are ≥ 1.75 in $\geq 80\%$ of the samples.

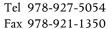
Functional Testing (DNA Recovery and Purity) - Twenty-four Monarch® Spin Columns S2C are tested with 10 μ g of HindIII digested Lambda resulting in \geq 75% recovery in \geq 80% of the samples. OD 260/280 and 260/230 are \geq 1.75 in \geq 80% of the samples.

Functional Testing (RNase A, Monarch®) - A 10 μ l reaction in NEBuffer 4 containing 40 ng of fluorescein labeled RNA transcript and RNase A is incubated at 37°C. After incubation for 5 minutes, complete disappearance of the RNA substrate occurs at \leq 1.0 μ g/ml of RNase A, as determined by gel electrophoresis using fluorescent detection.









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New England Biolabs Product Specification

Assay Name/Specification (minimum release criteria)

New england Biolabs

Functional Testing (Tissue Lysis Buffer, Monarch®) - Genomic DNA is purified from 8 NEB10-Beta samples, resulting in \geq 3 µg of gDNA being recovered in \geq 80% of the samples. OD 260/280 and 260/230 are \geq 1.75 in \geq 80% of the samples.

* Individual Product Component Note - Standard Quality Control Tests are performed for each component included in Monarch® Spin gDNA Extraction Kit and meet the designated specifications.

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Haurenbrow

Date 21 Aug 2024

Lauren Brown Quality Approver





