



Monarch[®] Genomic DNA Purification Kit

30%^{*} OFF

NOW AVAILABLE AT MEDSTORE

#T3010S
50 preps
~~\$195~~
\$136.49

#T3010L
150 preps
~~\$499~~
\$349.29

Try a Monarch sample: international.neb.com/monarch/try-a-monarch-sample

Advantages:

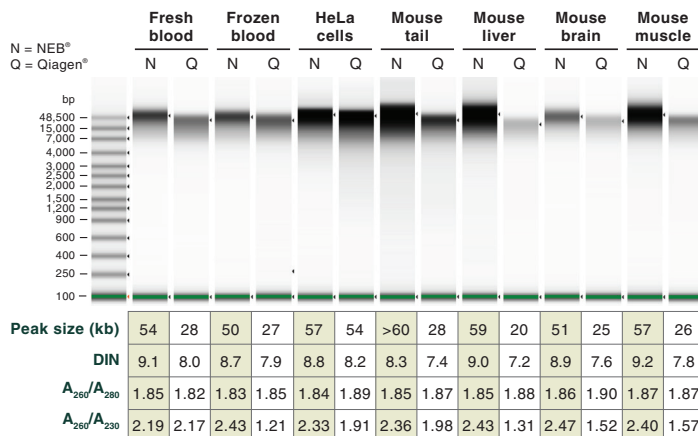
- Use with a wide variety of sample types (Tissue, blood, cells, bacteria, yeast and swab)
- Achieve higher yields, especially with difficult tissue samples (e.g., brain and muscle)
- Effectively remove RNA (< 1% residual RNA) with optimized buffer chemistry and included RNase A
- Isolate longer DNA (peak size > 50 kb), which is ideal for long-read sequencing platforms
- Save time with fast protocols, efficient lysis steps and minimal hands on time
- Buffers and reagents available separately



Specifications:

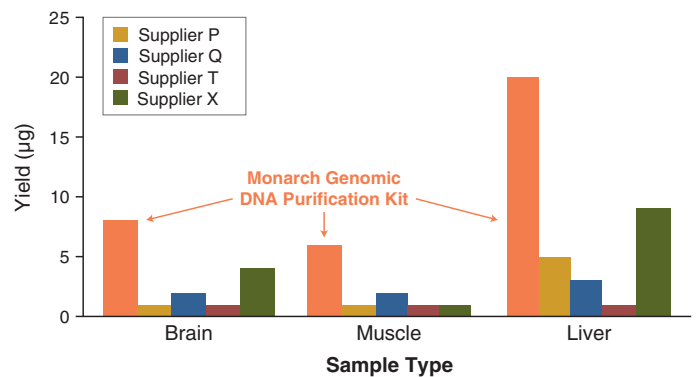
- **Recommended Input Amount:** Varies by sample type.
- **Binding Capacity:** 30 µg genomic DNA
- **Genomic DNA Size:** Peak size > 50 kb for most sample types; may be lower for saliva and buccal swabs
- **Elution Volume:** ≥ 35 µl (100 µl is recommended)
- **Purity:** $A_{260/280} \geq 1.8$, $A_{260/230} \geq 2.0$
- **RNA Content:** < 1% (with included RNase A treatment)
- **Compatible Downstream Applications:** endpoint PCR, qPCR, library preparation for NGS

The Monarch Genomic DNA Purification Kit provides excellent yields of higher quality, higher molecular weight DNA than the Qiagen[®] DNeasy[®] Blood & Tissue Kit



Agilent Technologies[®] 4200 TapeStation[®] Genomic DNA ScreenTape was used for analysis of gDNA purified from blood, cultured cells and tissue samples using the relevant protocols of the Monarch Genomic DNA Purification Kit and the Qiagen DNeasy Blood & Tissue Kit. gDNA was eluted in 100 µl and 1/100 of the eluates (~1 µl) was loaded on a Genomic DNA ScreenTape. Starting materials used: 100 µl fresh human whole blood, 100 µl frozen pig blood, 1 x 10⁶ HeLa cells and 10 mg frozen tissue powder. Monarch-purified gDNA samples typically show peak sizes 50–70 kb and DINs of ~9. DNeasy-purified gDNA peak sizes are typically < 30 kb with DINs ~7–8. DNeasy kits produce lower yields and low $A_{260/230}$ ratios for liver, brain, muscle and frozen blood.

The Monarch Genomic DNA Purification Kit provides excellent yields for difficult tissue types



Duplicate 10 mg samples of RNAlater[®]-stabilized rat tissue were cut to small pieces and subsequently lysed and purified according to the protocols provided for each kit. Optional RNase A steps were included. Elution was carried out with 100 µl elution buffer provided in the respective kits. Yields displayed are averages of the duplicate samples, and represent the genomic DNA yield after correcting for the RNA content as determined by LC-MS. Results indicate that the Monarch Genomic DNA Purification Kit provides excellent yields for a wide range of tissues, which can be problematic for other commercial kits.

*TERMS & CONDITIONS: Offer valid in Canada only. Expires September 30th, 2019. Discount is eligible for products listed on this flyer. Promotion not valid for cash or cash equivalent towards purchase(s). No substitutions. Offer may not be applied to existing, pending or prior orders. Cannot be combined with any other promotion or discount. One or more of these products are covered by patents, trademarks and/or copyrights owned or controlled by New England Biolabs, Inc. For more information, please email us at orders.ca@neb.com

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