

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>NEBNext Direct<sup>®</sup> Custom Ready Panels</i>
<i>Catalog #:</i>	<i>E6631L</i>
<i>Kit Components:</i>	<i>NEBNext Direct<sup>®</sup> Custom Bait Pool (N6631) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Sample Purification Beads (E7048) — Store at 25°C</i> <i>NEBNext Direct<sup>®</sup> Bead Prep Buffer (E7001) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> Hybridization Buffer (E7083) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> 3' Blunting Buffer (E7080) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> dA-Tailing Buffer (E7004) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> Adaptor Ligation Buffer (E7005) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> 5' Blunting Buffer (E7081) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> Cleaving Buffer (E7007) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> Hybridization Wash (HW) (E7082) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> Bead Wash 1 (BW1) (E7009) — Store at 25°C</i> <i>NEBNext Direct<sup>®</sup> Bead Wash 2 (BW2) (E7010) — Store at 4°C</i> <i>NEBNext Direct<sup>®</sup> 3' Adaptor (E7011) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> 5' UMI Adaptor (E7012) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> 3' Blunting Enzyme Mix (E7084) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> dA-Tailing Enzyme (E7015) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Ligase (E7016) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> 5' Blunting Enzyme Mix (E7017) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Cleaving Enzyme Mix (E7018) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Q5<sup>®</sup> Master Mix (E7019) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D01 (E7020) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D02 (E7021) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D03 (E7022) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D04 (E7023) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D05 (E7024) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D06 (E7025) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D07 (E7026) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D08 (E7027) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D09 (E7028) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D10 (E7029) — Store at -20°C</i> <i>NEBNext Direct<sup>®</sup> Index Primer Mix D11 (E7030) — Store at -20°C</i>



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NEBNext Direct<sup>®</sup> Index Primer Mix D12 (E7031) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D13 (E7032) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D14 (E7033) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D15 (E7034) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D16 (E7035) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D17 (E7036) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D18 (E7037) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D19 (E7038) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D20 (E7039) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D21 (E7040) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D22 (E7041) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D23 (E7042) — Store at -20°C  
NEBNext Direct<sup>®</sup> Index Primer Mix D24 (E7043) — Store at -20°C  
NEBNext Direct<sup>®</sup> DNA Nicking Buffer (E7087) — Store at -20°C  
NEBNext Direct<sup>®</sup> DNA Nicking Enzyme (E7088) — Store at -20°C  
NEBNext Direct<sup>®</sup> Stop Solution (E7089) — Store at -20°C  
NEBNext Direct<sup>®</sup> Streptavidin Beads (E7049) — Store at 4°C  
NEBNext Direct<sup>®</sup> Hybridization Additive (E7050) — Store at -20°C

*Shelf Life:* 18 months  
*Storage Temp:* Multi-temperature  
*Specification Version:* PS-E6631L v1.0  
*Effective Date:* 11 Jun 2018

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Targeted DNA Library Construction, Custom)** - Each set of reagents is functionally validated together through construction and sequencing of a target enriched DNA library on an Illumina<sup>®</sup> Sequencing platform using the NEBNext Direct<sup>®</sup> Cancer HotSpot Baits. For 100 ng of human genomic DNA input and coverage of 100 X, 100% of the targets are covered using the NEBNext Direct<sup>®</sup> Cancer HotSpot Baits.

\* **Individual Custom Panel Note** - For each Custom Ready Panel, each set of reagents is functionally validated together through construction and sequencing of a target enriched DNA library on an Illumina<sup>®</sup> sequencing platform. Test results may vary based on the selection of genes tested.



Date 11 Jun 2018

Derek Robinson  
Director of Quality Control

