

NA-XTD Influenza Neuraminidase Assay Kit



Greener by design™

-  **Less hazardous:**
nonhazardous formulation for Accelerator solution
-  **Sustainably packaged:**
smaller packaging with 100% recycled content

 Learn more at thermofisher.com/greenerbydesign

Introduction

Thermo Fisher Scientific is committed to designing our products with the environment in mind. This fact sheet provides the rationale behind the environmental claims that use of the Invitrogen™ NA-XTD™ Influenza Neuraminidase Assay Kit results in reduced exposure to hazardous materials and that the product has more sustainable packaging. The kit is composed of less hazardous reagents than our previous Invitrogen™ NA-Star™ kit and uses 100% recycled kit packaging.

Product description

The NA-XTD Influenza Neuraminidase Assay Kit has been optimized for monitoring the effect of neuraminidase inhibitors (NI) on neuraminidase (NA) enzyme activity. The NA-XTD Influenza Neuraminidase Assay Kit provides the Invitrogen™ NAXTD™ chemiluminescent neuraminidase substrate, together with necessary assay reagents and optional microplates, to measure neuraminidase activity of influenza virus, either for neuraminidase inhibitor (NI) sensitivity with virus isolates, or for cellbased virus replication or inhibition assays. The NA-XTD chemiluminescent substrate is similar to the first-generation Invitrogen™ NA-Star™ substrate, with a single structural change that provides a much longer-lasting chemiluminescent signal, with typically higher detection sensitivity. The nextgeneration Invitrogen™ NA-XTD™ Accelerator solution triggers high-intensity light emission from the NA-XTD reaction product, while avoiding some of the hazards and regulatory concerns associated with the previous Accelerator solution.

Green features

Less hazardous

The NA-XTD Influenza Neuraminidase Assay Kit has been designed to reduce a chemical hazard associated with the NA-Star assay. By using the principles of green chemistry, our scientists identified and qualified a less hazardous alternative to the Accelerator used in the NA-Star kit. The new formulation is proprietary but has been fully evaluated by our toxicologists and is deemed to be nonhazardous.

Please see the SDSs for this line of products at thermofisher.com/documents.

Sustainably packaged

We applied our sustainable packaging principles to the NA-XTD Influenza Neuraminidase Assay Kit, “right-sizing” the kit to minimize excess packaging and allow storage in a smaller space.

Through selection of sustainable kit materials, we have made significant strides in reducing our packaging footprint. The kit packaging is made entirely from 100% post-consumer recycled material and is fully recyclable at end of life to generate less waste (Figure 1).

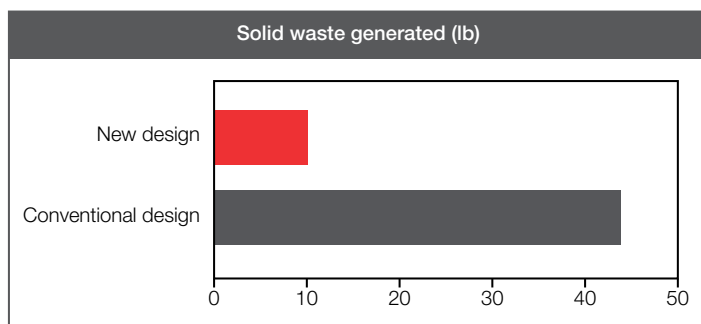


Figure 1. Impacts of packaging changes, per 1,000 boxes.