

Products: Sample Preparation

compatible with chemical labeling (iTRAQ, TMT)



iST-NHS 12x
P.O.00026 | EUR 449

- all-in-one for any starting material
- simple-to-use, sensitive and fast
- ready-to-go aliquots for best quality

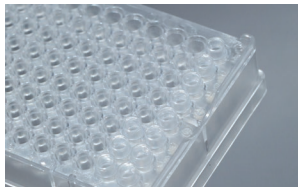


iST-NHS 96x
P.O.00030 | EUR 2590

- all advantages of the iST-NHS 12x
- high-throughput applications
- compatible with automated liquid handling platforms

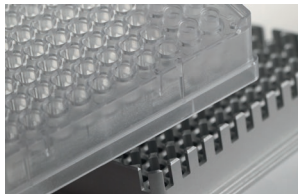
Products: Accessories for iST

for high-throughput sample processing



96well adapter
P.O.00002 | EUR 150

- for MTP plate centrifuges
- two adapters



Heating shaker adapter
P.O.00004 | EUR 1080

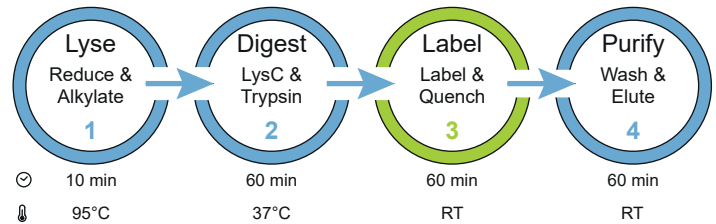
- for MTP plate shakers
- compatible with automated liquid handling platforms
- optimal heat transfer to iST cartridge



iST technology

PreOmic's proprietary iST technology is an enhancement upon the in-StageTip (iST) method for performing sample processing, developed in the Matthias Mann Lab and first described in Kulak et al. (Nature Methods, 2014).

iST-NHS for isobaric labeling



The iST-NHS sample preparation kit allows streamlined chemical labeling of peptides directly followed by an efficient peptide cleanup step, thus minimizing sample loss, overall hands-on time and, importantly, the amount of required chemical labels. The PreOmics' NHS-compatible sample preparation kit is designed to assist you to achieve best results with minimum sample preparation steps and little hands-on time for multiplexing applications.

All items are available directly from PreOmics, please contact us at order@preomics.com.

PreOmics offers worldwide shipping from our warehouses in Germany and the USA.

PreOmics GmbH

Am Klopferspitz 19, 82152 Martinsried, Germany

Phone: +49 (0) 89 2314 1630

info@preomics.com

www.preomics.com

Benefits of iST-NHS Kit

robust & sensitive

- high reproducibility: $R^2 > 0.9$
- working range: 1-100 μg protein input
- increased peptide & protein identifications

rapid results

- 1.5 hour hands-on time
- single-step lysis, reduction and alkylation
- streamlined solution for isobaric labeling
- no need for sample cleanup prior to labeling

cleanest peptide samples

- dual cleanup step removes hydrophilic & hydrophobic contaminants
- no generation of unwanted TMT side reaction products
- results in ready-to-measure peptides
- compatible with standard lab equipment

applications

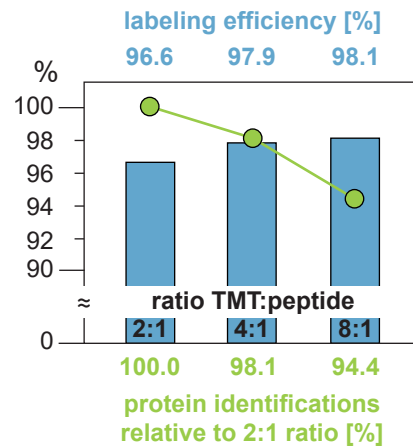
- proteome discovery
- immunoprecipitations
- compatible with both iTRAQ and TMT

sample types

- cell lines
- fresh & FFPE tissues
- body fluids (serum, plasma, CSF, urine)
- bacteria & yeast

TMT labeling efficiency

Traditional high TMT:peptide ratios result in higher labeling efficiencies but also in reduced protein identifications. In combination with the iST-NHS kit, PreOmics recommends to use a TMT:peptide ratio of 4:1 as the most effective balance between labeling efficiency and protein identifications.



iST-NHS reproducibility

Intensity correlations across biological (A-C) and technical (D-F) replicates of different TMT:peptide ratio experiments. Reproducibility is displayed as R^2 .

