

β-Glucuronidase Sample Treatment Kit

For Research Use Only

INTRODUCTION

Isoprostanes are primarily generated by free radical mechanisms making them excellent biomarkers for systemic oxidant stress. It is now known that isoprostanes are extensively metabolized in humans. Oxford Biomedical Research has found that an average of 50% of the isoprostane excreted in human urine is conjugated to glucuronic acid. The extent of glucuronidation among individuals ranges significantly from 28% to 80%. In light of this information it is strongly recommended that specimens be pretreated with β-glucuronidase prior to isoprostane analysis to provide a more accurate assessment of oxidative stress.

This kit provides sufficient materials and methods for the treatment of 40 samples allowing the user to differentiate the inter-individual differences in glucuronidation and measure the total systemic isoprostane output.

MATERIALS PROVIDED

Component	Description	Volume	Storage	Cat no.
β-Glucuronidase	4,000 Units of recombinant β-Glucuronidase	2 x 100 μL	4°C or Colder	GL85a

EXPERIMENTAL PROCEDURE

1. For every 100 μL of urine to be assayed, add 5 μL of β-Glucuronidase. Seal container and mix solution by inversion.
2. Incubate the mixture at 37°C for 2 hours.
3. The sample is now ready for dilution and assay.

STABILITY

This product is stable for at least 6 months at 4°C. For long term storage, freeze at -20°C or -80°C.

DISCLAIMER

This information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Oxford Biomedical Research, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See catalog for additional terms and conditions of sale.

TECHNICAL SUPPORT

If you need technical information or assistance with assay procedures, call our Technical Support Department at 800-692-4633 or 248-852-8815. Our staff will be happy to answer your questions about this or any other product in the Oxford Biomedical line.

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