

PON STANDARDS
(QQ and RR Phenotypes)**ZMC Catalog #:** 0801384 **Lot #:** XXXXXX**PRODUCT
CHARACTERISTICS**

PON Standards contain human paraoxonase 1 (PON1) enzyme partially purified from human serum or plasma that has been phenotyped and genotyped for the Q192R polymorphism. PON Standards are suspended in buffer containing 25mM Tris-HCl, 0.17 mM NaCl, 20% glycerol, 0.1% Tergitol NP-10, 1.0 mM CaCl₂, at pH 8.0. The PON1 enzyme activity is calcium-dependent and can be inhibited by chelating agents such as EDTA.

**RECOMMENDED
USAGE AND ACTIVITY**

PON Standards are intended to be used as controls for arylesterase and paraoxonase applications, including kinetic activity assays and phenotype/genotype assays. For best results, dilute standards 1:3 for arylesterase assays and 1:20 for paraoxonase assays. Arylesterase activity reference ranges have been determined by the Zeptomatrix Arylesterase / Paraoxonase Assay Kit (Catalog # 0801199).

QQ: XXX - XXX kU/L RR: XXX - XXX kU/L

CONTENTS

Each package contains two vials: 300µl of both PON phenotype QQ and phenotype RR (formerly phenotype AA and phenotype BB, respectively).

**STORAGE
AND STABILITY**

PON Standards should be divided into smaller aliquots and stored at -70°C or below. Avoid multiple freeze-thaws. For short term use, material may be stored at 2-8°C for up to 1 week. **Expiration Date:** One year from the date of receipt. Expiration date may be extended if handled and stored properly.

PRECAUTIONS

Human source material was used to manufacture this product. Follow universal safety precautions while working with bio-hazardous materials. Wear gloves, lab coats and safety glasses at all times.

REFERENCES

Browne RW, Koury ST, Marion S, Wilding G, Muti P, Trevisan M. Accuracy and biological variation of human serum paraoxonase 1 activity and polymorphism (Q192R) by kinetic enzyme assay. Clin Chem (2007) 53:310-317.

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