



HUMAN ENZYMES

(For use as ERMs, calibrators, and control serums)

ERM: Enzyme Reference Material

LIST OF ENZYMES

Product Number	Abbreviation	Enzyme	EC Number	Form
T-70	HC-AST II (GOT)	Aspartate aminotransferase	EC 2.6.1.1	lyophilized
T-71	HC-ALT II (GPT)	Alanine aminotransferase	EC 2.6.1.2	lyophilized
T-72	HC-GTP	γ -Glutamyltransferase	EC 2.3.2.2	lyophilized
T-73	HC-ALP	Alkaline phosphatase	EC 3.1.3.1	liquid
T-74	HC-CK II	Creatine kinase	EC 2.7.3.2	lyophilized
T-208	HC-LD II	Lactate dehydrogenase	EC 1.1.1.27	lyophilized
T-110	HP-AMY II	α -Amylase (Pancreatic)	EC 3.2.1.1	lyophilized
T-77	HC-LP	Lipase (Pancreatic)	EC 3.1.1.3	lyophilized

FEATURES

All eight enzymes are human type (from recombinant cells and human sources).

Types of isozymes and the characteristics of the enzymes closely resemble those in human sera.

Origin and Isozyme

Enzyme	Abbreviation	Origin	Manufacturing Method	Isozyme Type
AST	HC-AST II	human liver	recombinant <i>E.coli</i>	cytosolic
ALT	HC-ALT II	human liver	recombinant <i>E.coli</i>	cytosolic
γ -GTP	HC-GTP	human liver	recombinant mammalian cell	II (Liver)
ALP	HC-ALP	human liver	recombinant mammalian cell	liver
CK	HC-CK II	human muscle	recombinant <i>E.coli</i>	MM
LD	HC-LD II	human RBC	recombinant <i>E.coli</i>	I
P-AMY	HP-AMY II	human pancreas	recombinant yeast	P
Lipase	HC-LP	human pancreas	recombinant mammalian cell	P

*RBC: red blood cell M: muscle P: pancreatic S: salivary

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