

Liquid Reagents – ready to use

PYRIDOXAL-5'-PHOSPHATE

Single Reagent

Supplementary reagent for quantitative *in vitro* determination of GOT (AST) and GPT (ALT) in human serum or plasma on photometric systems.

REF

Cont.

D96361 1 x 4 ml Single Reagent

D94610	5 x 100 ml	GOT (AST) Reagent
D98616	5 x 50 ml	GOT (AST) Reagent
D94620	5 x 100 ml	GPT (ALT) Reagent
D98624	5 x 50 ml	GPT (ALT) Reagent

TEST PRINCIPLE

Pyridoxal-5'-phosphate (PP) functions as coenzyme in amino transfer reactions of aspartate GOT (AST) and alanine GPT (ALT) amino transferases.

Enzymes with bound coenzyme as well as coenzyme deficient apoenzymes may be present in serum. Therefore, addition of PP usually produces a marked increase in amino transferase activity. The increase ranges from zero to 3 or 4 fold and averages approximately 50 % for GOT and approximately 20 % for GPT. The IFCC reference method specifies the addition of PP, in accordance with the principle that all factors affecting the rate of reactions must be optimized. PP liquid reagent is intended for use in the reactivation of apoenzymes of GOT and GPT in serum or plasma, prior to the determination of the activity of these enzymes.

REAGENT COMPOSITION

COMPONENTS:	FINAL CONCENTRATION
Good's Puffer, pH 9.6	0.1 mmol/L
Pyridoxal-5'-Phosphate	13.8 mmol/L

REAGENT PREPARATION

The Reagent is ready for use.

REAGENT STABILITY AND STORAGE

Conditions: protect from light
close immediately after use
Storage: at 2 – 8°C
Stability: up to the expiration date

After mixing of PP with Reagent 1 (of GOT or GPT):

Stability: at 15 – 25°C 24 hours
at 2 – 8°C 6 days

MANUAL TEST PROCEDURE

Bring reagents and samples to room temperature.
Mix 100 parts of R1 (GOT or GPT) with 1 part of Pyridoxale-5-phosphate.
Follow instructions for GOT or GPT (Substrate Start only).

NOTE: Pyridoxal-5'-phosphate -treated Dialab Control and Calibration Sera will yield higher results.

WARNINGS AND PRECAUTIONS

Take the necessary precautions for the use of laboratory reagents.

WASTE MANAGEMENT

Please refer to local legal requirements.

REFERENCES

1. Thomas L. Alanine aminotransferase (ALT), Aspartate aminotransferase (AST). In: Thomas L, editor. Clinical Laboratory Diagnostics. 1st ed. Frankfurt: TH-Books Verlagsgesellschaft; 1998. p. 55-65.
2. Klauke R, Schmidt L, Lorentz K. Recommendations for carrying out standard ECCLS procedures (1988) for the catalytic concentrations of creatine kinase, aspartate aminotransferase, alanine aminotransferase and gamma-glutamyltransferase at 37°C. Standardization Committee of the German Society for Clinical Chemistry, Enzyme Working Group of the German Society for Clinical Chemistry. Eur J Clin Chem Clin Biochem 1993;31:901-9.



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