

# Acetaminophen L3K<sup>®</sup>

FOR THE QUANTITATIVE MEASUREMENT OF ACETAMINOPHEN

METHOD: ENZYMATIC (ACYL AMIDOHYDROLASE); ENDPOINT

Acetaminophen (paracetamol) measurements are used in the diagnosis and treatment of acetaminophen overdose toxicity.

Sekisui's Acetaminophen L3K<sup>®</sup> assay uses a spectrophotometric method that is rapid, reliable, convenient and specific for acetaminophen. It is intended for use with serum and plasma.

## Features:

- Two part stable liquid
- A single level liquid acetaminophen calibrator is included in the kit
- Reduced NAC interference
- Suitable for use with serum and lithium heparin plasma

## Benefits:

- Easy to use, no additional reagent preparation required
- Convenient and cost effective
- Confidence in results
- Flexible sample types to meet different laboratory needs

## Performance Characteristics

### Precision

- Within-Run:  $\leq 1.5\%$
- Total Precision:  $\leq 2.9\%$

### Accuracy

#### SERUM<sup>(a)</sup>

- Slope: 1.064
- Intercept: 1.1  $\mu\text{g/mL}$  (7.0  $\mu\text{mol/L}$ )
- Correlation Coefficient: 0.9998

#### PLASMA<sup>(b)</sup>

- Slope: 0.999
- Intercept: -0.3  $\mu\text{g/mL}$  (-2.2  $\mu\text{mol/L}$ )
- Correlation Coefficient: 0.9999

### Linearity

- 0.6-377.5  $\mu\text{g/mL}$  (4-2500  $\mu\text{mol/L}$ )

(a) The performance of this method (y) was compared with the performance with a similar acetaminophen method (x) on a Roche/Hitachi<sup>®</sup> 717 analyzer.

(b) The performance of this method with plasma (y) was compared with the performance of this method with serum (x) on a Roche/Hitachi<sup>®</sup> 717 analyzer.

### No Significant Interferences Up to Levels Indicated

- Hemoglobin: 200 mg/dL (31  $\mu\text{mol/L}$ )
- Conjugated Bilirubin: 2 mg/dL (23.7  $\mu\text{mol/L}$ )
- Unconjugated Bilirubin: 2 mg/dL (34.2  $\mu\text{mol/L}$ )
- Ascorbic Acid: 3000  $\mu\text{g/dL}$  (170  $\mu\text{mol/L}$ )
- N-Acetylcysteine: 1500 mg/L (9.2 mmol/L)
- Intralipid: 200 mg/dL (600 mg/dL (6.8 mmol/L) Simulated Triglycerides)

### Reference Range<sup>(1)</sup>

- Therapeutic Concentration: 10-30  $\mu\text{g/mL}$  (66-199  $\mu\text{mol/L}$ )
- Toxic Concentration:  $>200 \mu\text{g/mL}$  (1324  $\mu\text{mol/L}$ )

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## Ordering information

	Configuration	Catalog Number
<b>Acetaminophen L3K<sup>®</sup></b>	R1 1 x 10 mL R2 2 x 10 mL 1 x 5 mL (Calibrator)	506-10
<b>Acetaminophen L3K<sup>®</sup></b>	R1 3 x 10 mL R2 6 x 10 mL 1 x 5 mL (Calibrator)	506-30

(1) Burtis, C.A. and Ashwood, E.R., Eds, *Tietz Textbook of Clinical Chemistry, Second Edition*, pp 1168, 2212, W.B. Saunders Company, Philadelphia (1994).



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### THE AMERICAS

Sekisui Diagnostics, LLC  
One Wall Street  
Burlington, MA 01803  
Phone: 800 332 1042  
Fax: 800 762 6311  
Email: [questions@sekisui-dx.com](mailto:questions@sekisui-dx.com)

### INTERNATIONAL

Sekisui Diagnostics (UK) Limited  
Liphook Way, Allington  
Maidstone, Kent, ME16 0LQ, UK  
Phone: +44 1622 607800  
Fax: +44 1622 607801  
Email: [info@sekisui-dx.com](mailto:info@sekisui-dx.com)



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[www.sekisuidiagnostics.com](http://www.sekisuidiagnostics.com)