Acetaminophen 506 / 03R11-20 Note: Unless otherwise indicated, data was collected on a Roche/Hitachi® 717 analyzer.	
Manufactured by	Sekisui Diagnostics
Test Principle:	The enzyme, acyl amidohydrolase, cleaves the amide bond of the acetaminophen molecule, leaving p- aminophenol and acetate. The p-aminophenol is reacted with 2,5-dimethylphenol in the presence of manganese ions to form a colored compound, 4-(4-iminophenol)-2,5-dimethylcyclohexadiene-1-one. The increased absorbance at 605 (660 ⁴) nm due to the formation of 4-(4-iminophenol)-2,5- dimethylcyclohexadiene-1-one is directly proportional to the concentration of acetaminophen in the sample.
Methodology	Enzymatic/Colorimetric
Sample Types:	Fresh, clear, unhemolysed serum or lithium heparinized plasma. EDTA is not suitable for use.
Fill Requirements:	Use a minimum volume of 20ml of R2 reagent at a time, using only 20 ml wedges. When adding additional reagent to the analyzer use a new wedge. ⁴
On Board Stability	8 days (192 hours) ⁴
Calibration Stability	24 hours ⁴
Precision	Within-run: $\leq 1.5\%$ Total Precision: $\leq 2.9\%$
Accuracy	Serum ¹ Slope: 1.064 Intercept: 1.1 μg/mL (7.0 μmol/L) Correlation Coefficient: 0.9998 Plasma ³ Slope: 0.999 Intercept -0.3 μg/mL (-2.2 μmol/L) Correlation Coefficient: 0.9999
Linearity	0.6 – 377.5 ug/mL (4 – 2500 μmol/L)
No Significant Interference to levels indicated (See insert/IFU for complete listing)	 N-Acetylcysteine: 1500 mg/L (9.2 mmol/L) Hemoglobin: 200 mg/dL (31 µmol/L) Conjugated Bilirubin: 2 mg/dL (23.7 µmol/L) Unconjugated Bilirubin: 2 mg/dL (34.2 µmol/L) Ascorbic Acid: 3000 µg/dL (170 µmol/L) Intralipid: 200 mg/dL (600 mg/dL Simulated Triglyceride)

¹ SERUM: The performance of this method (y) was compared with the performance with a similar acetaminophen method (x) on a Roche/Hitachi® 717 analyzer. ² PLASMA: The performance of this method with plasma (y) was compared to the performance of this method with serum (x) on an Advia® 1650 analyzer. ³ PLASMA: The performance of this method with plasma (y) was compared to the performance of this method with serum (x) on a Roche/Hitachi® 717 analyzer ⁴ Testing completed on Architect c8000 system