

**Magnesium Test Kit****Photometric test using Xylidyl blue****ASSAY PROCEDURE**

AUTOMATED PARAMETERS	
Wavelength	505 nm (490-550 nm)
Reaction Type	End Point
Cuvette	1 cm light path
Reaction Temperature	Room temperature
Reaction Type	Increasing
Measurement	Against Reagent Blank
Sample Volume	10 $\mu$ l
Reagent Volume	1000 $\mu$ l
Incubation	05 minutes
Blank Absorbance Limit	< 1.20
Low Normal	1.6 mg/dL (0.65 mmol/L)
High Normal	2.6 mg/dl (1.05 mmol/L)
Linearity	5.0mg/dL (2.08 mmol/L)

**MANUAL ASSAY PROCEDURE****Pipette into Test Tubes.**

	BLANK	STD	SAMPLE
Sample	-	-	10 $\mu$ l
Standard	-	10 $\mu$ l	-
Reagent	1000 $\mu$ l	1000 $\mu$ l	1000 $\mu$ l

**Mix & Incubate for 05 min. at R.T. Measure absorbance of Sample (AT) and Standard (AS) against Reagent Blank at 505 nm. The color is stable for 30 min at R.T.**

**SAMPLE DILUTIONS:**

1. **This method is linear upto a concentration of 5.0 mg/dL.**
2. **Dilute samples above this concentration 1:1 with 0.9% saline**
3. **Repeat assay. Multiply the result by 2.**

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## LINEARITY

**The method is linear upto a concentration 5.0 mg/dl (2.08 mmol/L). Dilute samples above this concentration 1:1 with 0.9% saline solution and repeat assay.**

**Multiply the result by 2.**

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