Using LINEST function in Excel, we get the following results:

Table 2: Slope, intercept and their uncertainties

slope intercept s _y	818.5714	ind their uncertaintie	
		Sm	22.1405
	0.0103	Sb	0.0080
	0.0117	R ²	0.9963

From table 2, the molar absorptivity = $818.571 \pm 22.141 \, (M^{-1} \, cm^{-1})$

Figure 1 shows the equation of linear line. This equation can be used to calculate the phosphate concentration in unknown sample as follow:

(where y is absorbance and x is the phosphate concentration in the diluted hydrolyzed solution)

Rearrange the equation:

x = (y - 0.0103)/818 ale.co.uk

From table Whe absorbance for Akkown (1) is 0.095, thus the concentration of pheroacon diluted hydrolyzed solution:

The amount of phosphate =
$$1.03 \times 10^{-4}$$
 M $\times 0.002$ L = 2.06×10^{-7} mol