Let $\{\varepsilon_n\}_{n=1}^{\infty}$ be a sequence of positive real numbers, such that $\lim_{n\to\infty}\varepsilon_n=0$. Find

$$\lim_{n \to \infty} \frac{1}{n} \sum_{k=1}^{n} \ln \left(\frac{k}{n} + \varepsilon_n \right),$$

where ln denotes the natural logarithm.