$$\text{Molar ratio (n)} = \frac{\left[\frac{0.42}{4}\right]}{\left[\frac{1.0}{3}\right]} = 0.315$$

$$\text{wt\%} = 100 \times \frac{\text{mg(std)} \times \text{MW(pdt)} \times \text{n} \times \text{Pcal}}{\text{mg(std)} \times \text{MW(pdt)}}$$

$$= 100 \times \frac{15.8 \times 476.57 \times 0.315 \times 1.0}{14.5 \times 168.19} = 97.26\%$$

*Internal Standard: 1,3,5-Trimethoxybenzene
*Pcal: Internal Standard Purity