

How to prepare 100ml 0.01M sample solution from 40mg famotidine tablets?

Solution:

$$1. n(\text{famotidine}) = \frac{0.04\text{g}}{337.45\left(\frac{\text{g}}{\text{mole}}\right)} = 0.0001185\text{moles};$$

$$2. V(\text{solution}) = \frac{0.0001185\text{moles}}{0.01M} = 0.01185L;$$

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