

The biodiesel sample is diluted with a xylene solution. The potassium content of the sample is directly determined by flame atomic absorption spectrometry (*Figure 1*) at a wavelength of 766.5 nm with reference to a set of calibration solutions prepared from a potassium organometallic salt dissolved in a mixture of xylene and stabilizer.



Figure 1. Atomic absorption spectrometer.

Amount of sample required: 5 g  
Cost of analysis: RM 125 per sample\*

Note: \* As at June 2010; subject to change.

## REFERENCE

EUROPEAN COMMITTEE FOR STANDARDIZATION (2003). *EN 14109:2003 Fat and Oil Derivatives – Fatty Acid Methyl Esters (FAME) – Determination of Potassium Content by Atomic Absorption Spectrometry.*

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