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## Appraisal of concentration of caffeine in some energy drinks

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The concentration of caffeine in some branded energy drinks such as wild dragon Power Horse, Climax, Malta Guinness, Red Bull and Blue Energy were determine using high performance liquid chromatography hitachi elite lachrome auto sample HPLCL-2200 model in a water spherisorb C18, 5  $\mu$  ODs 2 column with a flow rate of 1.0 ml/min in 50:50 methanol/distilled water as mobile phase with a view to ascertain compliance to standards. The result showed varied concentration of caffeine in the range  $23.4 \pm 0.4$  mg/ml in these energy drinks always higher than the branded concentration in a deviation range of  $\pm 0.2$ . This indicates that enforcement of quality standards in product branding is weak and needs to be enforced as excess consumption has been reported to have health implications.

### Biography

Akoro Barbara Enruvwuoghene is a laboratory technologist. She graduated from Nigerian Institute of Leather and Science Technology in 2011. She holds a Higher National Diploma degree in Science Laboratory Technology Management with minor in Chemistry. She proceeded to graduate school and graduated with a master degree in Forensic Chemistry from Nigerian Defense Academy in 2013. Presently, she is a laboratory technologist in the drugs and cosmetic unit of National Agency for Food and Drug Administration and Control (NAFDAC). She has published six papers in reputed journals. She is an active member of the following: Scientific and laboratory Supply (SLS) United Kingdom, International Leather and Chemistry Association (ILCA) United Kingdom and Nigerian Chemical Society (NCS) Nigeria. She has also chaired several committees in NAFDAC that were set up to prevent fake drugs production, expired drugs importation and lead in cosmetic.

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