



SCHEDULE OF ACCREDITATION

Testing Laboratory Number: **LAS-002**

<p><u>Permanent Address of Laboratory:</u> Angostura Limited Corner Eastern Main Road & Trinity Ave Laventille Trinidad and Tobago. W.I.</p> <p><u>Postal Address</u></p> <p>Corner Eastern Main Road & Trinity Ave Laventille Trinidad and Tobago. W.I.</p> <p>Tel : 868-623-1841 Fax : 868- 623-1847/624-8531 e-mail: cghomer@angostura.com</p>		<p><u>Management Signatories:</u> Patrick Patel Vidia Doodnath Carol Homer-Caesar</p> <p><u>Technical Signatories:</u> Carol Homer Marlon Assue</p> <p><u>Nominated Representative:</u> Carol Homer</p> <p><u>Certificate of Accreditation</u> Issue No. : LAS-002 Date of issue : 1st Nov 2007 Expiry date : 1st Nov 2008</p>
Materials/Products Tested	Types of Tests/Properties Measured, Range of Measurement	Standard Specifications, Equipment/Techniques Used
<p><u>CHEMICAL</u> Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages</p>	<p>1) Determination of ethanol content (%) by Macro Distillation method using OIML system</p>	<p>1) Reference – AOAC 16th Ed. 26.1.08 (Alcohol by volume in Distilled Liquors – Hydrometer method) Method No- LA-TM-DIST-01</p>
<p>Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages</p>	<p>2) Determination of ethanol (%) by Micro distillation using Dee Distillation and Density Meter Analyser</p>	<p>2) Reference -: DMA 4500/5000 Manual), Dee distillation - Density Meter Analyser Method No. LA-TM-DMA-01</p>
<p>Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages</p>	<p>3) Determination of Total solids by evaporation method Units- g/100ml</p>	<p>3) Reference – AOAC 16th Ed. 33.2.09 Method No.- LA-TM-TS-01</p>
<p>Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages</p>	<p>4) Determination of Total Acids by Titrimetric method Units – mg/100ml</p>	<p>4) Reference -AOAC 16th Ed. 27.1.18B (Acidity Total of Beer) Method No. -LA-TM-TITR-01</p>
<p>Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages</p>	<p>5) Determination of Fixed Acids by Titrimetric method Units – mg/100ml</p>	<p>5) Reference -AOAC 16th Ed. 26.1.23B (Acids in Distilled Liquors) B. Fixed Acids Method No. -LA-TM-TITR-02</p>

Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages	6) Determination of pH	6) Reference – AOAC 16 th Ed. 27.1.19 Method No. - LA-TM-pH-01
Alcoholic beverages – Rum, bitters, flavoured alcoholic products, wines, carbonated beverages	7) Determination of acetaldehyde, methanol, acetone, methyl acetate, ethyl acetate, n-propanol, s-butanol, iso- butanol, n-butanol, acetal, active amyl- alcohol, iso amyl alcohol, n amyl alcohol and furfuraldehyde by Gas chromatography Units- mg/100ml Range – 0.6 to 5000mg/100ml Esters (Methyl acetate and Ethyl acetate) Range - 0.2 to 18,500 mg/100 ml Fusel oils (High boiling point alcohols)	All 14 components are analysed as one run by Gas chromatography using Flame ionisation detection. Ref.: Bacardi & Co. Ltd- BAP #275F –Modified by Angostura Ltd Laboratory Method No. -LA-TM-CON-01

Date of accreditation: 1st November, 2007

Manager, TTLABS