Spirit-based ready to drink alcoholic beverages — Specification
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A Uganda Standard does not purport to include all necessary provisions of a contract. Users are responsible for its correct application.
Foreword

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(a) a member of International Organisation for Standardisation (ISO) and
(b) a contact point for the WHO/FAO Codex Alimentarius Commission on Food Standards, and
(c) the National Enquiry Point on TBT/SPS Agreements of the World Trade Organisation (WTO).

The work of preparing Uganda Standards is carried out through Technical Committees. A Technical Committee is established to deliberate on standards in a given field or area and consists of representatives of consumers, traders, academicians, manufacturers, government and other stakeholders.

Draft Uganda Standards adopted by the Technical Committee are widely circulated to stakeholders and the general public for comments. The committee reviews the comments before recommending the draft standards for approval and declaration as Uganda Standards by the National Standards Council.

This Draft Uganda Standard has been developed as a result of a need to provide guidance to industry in production and regulation of Ready to Drink Spirit Based Alcoholic Beverage by subcommittee on Drinks, Water and related Beverages (SC16) of the Food and Agriculture standards Technical Committee (TC 2).
Spirit-based ready to drink alcoholic beverages — Specification

1 Scope
This Draft Uganda Standard specifies the requirements, method of sampling and test for Ready to Drink Spirit Based Alcoholic Beverages (RTD).

2 Normative references
The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

US 28 Code of practice for hygiene in the food and drink manufacturing industry
US217-1/EAS 217-1, Methods for the microbiological examination of foods — Part 1-1: General procedures and techniques
US EAS 38:2013, Labelling of pre-packaged foods — General requirements
US EAS 104:2014, Alcoholic beverages — Methods of sampling and test

3 Terms and definitions
For the purposes of this standard, the following terms and definitions shall apply.

3.1 Ready To Drink Spirit Based Alcoholic Beverages (RTD)
these are low strength carbonated and pasteurized or aseptically packaged alcoholic beverages derived from blending of neutral spirits as base with permitted foodadditives.

4 Requirements

4.1 General quality requirements

4.1.1 The product shall be free from sediments or suspended foreign matter except for the components incorporated in colloidal suspension and roughage from fruit/ juice.

4.1.2 The product may contain permitted food colors and additives as defined by Codex Alimentarius Commision. (bring GMP from codex)

4.1.3 The product shall possess the characteristics taste and aroma associated with respective base spirit. To enhance the characteristics flavor of the product, permitted flavors may be used.
4.1.4 The product shall be carbonated with carbon dioxide

4.1.6 The water used in the manufacture of the product shall be potable complying with US EAS12

4.2 Specific quality requirements

Ready To Drink Spirit Based Alcoholic Beverages shall comply with the compositional requirements indicated in Table 1 when tested in accordance with US EAS 104.

Table 1 — Quality requirements for Ready to Drink Spirit Based Alcoholic Beverages

<table>
<thead>
<tr>
<th>S/N</th>
<th>Characteristic</th>
<th>Requirement limits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ii. pH</td>
<td>2.700 – 4.500</td>
</tr>
<tr>
<td></td>
<td>iii. Total acidity g/L, as citric</td>
<td>2.00 – 7.00</td>
</tr>
<tr>
<td></td>
<td>iv. Volatile acidity g/L, max.</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td>v. Ethyl alcohol content %, v/v</td>
<td>3.00 – 8.00</td>
</tr>
<tr>
<td></td>
<td>vi Carbon dioxide %, v/v max</td>
<td>2.7</td>
</tr>
<tr>
<td></td>
<td>vii Sugar, % (m/v) max. (g/L)</td>
<td>20 (look at codex limit for food additive)</td>
</tr>
<tr>
<td></td>
<td>viii Methyl alcohol (mg/L)</td>
<td>30</td>
</tr>
</tbody>
</table>

5 Contaminants

The maximum limits for heavy metal contaminants in Ready to Drink Spirit Based Alcoholic Beverage shall comply with the requirements in Table 2 when tested in accordance with USEAS 104.

Table 2 — Contaminants limits for Ready to Drink Spirit Based Alcoholic Beverage

<table>
<thead>
<tr>
<th>S/No</th>
<th>Contaminant</th>
<th>Maximum limit (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Copper (as Cu),</td>
<td>2</td>
</tr>
<tr>
<td>ii.</td>
<td>Lead (as Pb),</td>
<td>0.1</td>
</tr>
<tr>
<td>iii.</td>
<td>Arsenic, as arsenic,</td>
<td>0.1</td>
</tr>
<tr>
<td>iv.</td>
<td>Zinc,</td>
<td>5 (cross check Zn and Cu with WHO requirements)</td>
</tr>
</tbody>
</table>

6 Microbiological limits

The maximum limits for microbiological contaminants in ready to drink spirit based alcoholic drink shall comply with the requirements in Table 3 when tested in accordance with US217-1/EAS217-1

Table 3 — Microbiological limits for ready to drink spirit based alcoholic drink

<table>
<thead>
<tr>
<th>S/No</th>
<th>Type of microbe</th>
<th>Limit (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>i.</td>
<td>Acetic acid bacteria</td>
<td>Shall be absent</td>
</tr>
<tr>
<td>ii.</td>
<td>Lactic acid bacteria</td>
<td>Shall be absent</td>
</tr>
</tbody>
</table>
7 Hygiene

Ready To Drink Spirit Based Alcoholic Beverage shall be produced in accordance with US 28.

8 Weights and measures

e The ready to drink Alcoholic beverages shall be packaged in accordance to the weights and measures act (check Year)

9 Packaging and labelling

9.1 Packaging

Ready To Drink Spirit Based Alcoholic Beverage shall be packaged in food grade containers, which protect the product from damage.

9.2 Labelling

In addition to the requirements of the General Standard for the Labelling of Pre-packaged Foods, US EAS 38, the following specific provisions apply:

i. Name of the product shall be “Ready to Drink Spirit Based Alcoholic Beverages” in close proximity to the brand name

ii. Name, physical location and address of manufacturer;

iii. Ethyl alcohol content, % by volume;

iv. List of ingredients in descending order of proportion by mass;

v. Net contents in accordance with the weights and measures Act ( ) requirements;

vi. Date of manufacture,

vii. Best before date;

viii. batch identification number/code;

ix. Country of origin.

x. Statutory warnings

xi. Storage condition

and

xii. A statement “Not for sale to persons under 18 years”
9.3 Sampling and methods of test

Sampling and testing shall be carried out in accordance with USEAS 104.
Bibliography


Certification marking

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The use of the UNBS Certification Mark is governed by the Standards Act, and the Regulations made thereunder. This mark can be used only by those licensed under the certification mark scheme operated by the Uganda National Bureau of Standards and in conjunction with the relevant Uganda Standard. The presence of this mark on a product or in relation to a product is an assurance that the goods comply with the requirements of that standard under a system of supervision, control and testing in accordance with the certification mark scheme of the Uganda National Bureau of Standards. UNBS marked products are continually checked by UNBS for conformity to that standard.

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