

ICS 65.020.20

B 05

Technical Standard of International Seabuckthorn Association

# 团 体 标 准

---

T/ISA007-2022

## 沙棘叶茶 (Seabuckthorn leaf tea)

Issued on December 29, 2022

Effective on January 29, 2023

国际沙棘协会 发布

Issued by: International Seabuckthorn Association



# 目次 Contents

前言 introduction.....	4
1 范围Range .....	6
2 规范性引用文件 Normative reference files .....	6
3 术语和定义 Terms and definitions .....	8
4. 实物标准样 Physical standard sample .....	8
5 外观指标 Appearance specifications .....	8
6 特征指标 Characteristic index .....	9
7 理化指标 Physical and chemical indexes .....	9
8 卫生指标 Health indicators .....	9
9 净含量 Net content .....	9
10 检测方法 Detection method .....	10
11 检验规则 Inspection rules .....	11
12.标志、标签、包装、运输和贮存 Marking, labeling, packaging, transportation and storage .....	12

# 前 言

为使企业在组织生产、销售、经营中有据可依，保证和稳定沙棘叶茶质量，维护产品信誉，保护消费者的利益，特制定本标准。本标准根据茶叶产品特征和生产、消费趋势，参照有关国际标准，对沙棘叶茶的各项指标作了规定。本标准按照 GB/T 1.1—2020《标准化工 作导则 第一部分：标准结构和编写》的规则起草。

本标准由国际沙棘协会归口。

本标准起草单位：兰州大学药学院、水利部沙棘开发管理中心（水利部水土保持植物开 发管理中心）、高原圣果沙棘制品有限公司、黑龙江省八面通林业局有限公司、山西宋家沟 功能食品有限公司、黑龙江众源冬果沙棘开发有限责任公司、北京宝得瑞健康产业有限公司、河北神兴沙棘研究院、阿勒泰太阳石健康产业发展有限公司、甘肃甘农生物科技有限公司、辽宁省旱地农林研究所、山西省林业科学研究院。

本标准主要起草人：杨志刚、毕春梅、姜依含、卢顺光、土小宁、高岩、夏静芳、张滨、温秀凤、田向荣、李想、许涛、杨柳、段国庆、张艳锋、杜中元、谭志超、张泽凯、邓泽强、傅雨萌、张东为、张娜。

## **Introduction**

In order to make enterprises in the organization of production, sales, management have evidence to rely on, to ensure and stabilize seabuckthorn leaf tea quality, maintain product better This standard is formulated to protect the interests of consumers. This standard is based on tea product characteristics and production and consumption trends. Relevant international standards have stipulated the indexes of seabuckthorn leaf tea. This standard is in accordance with GB/T 1.1-2020 Standard Chemical Industry. Drafting of rules for Guidelines Part I: Standard Structure and Preparation.

This standard is compiled by the International Seabuckthorn Association.

This standard is drafted by: College of Pharmacy, Lanzhou University, Seabuckthorn Development and Management Center, Ministry of Water Resources (Ministry of Water Resources, Soil and Water Conservation Plant Development Management Center), CONSECO Co., LTD., Heilongjiang Bamiantong Forestry Bureau Co., LTD., Shanxi Songjiagou Functional Food Co., LTD., Heilongjiang Zhongyuan Dongguo Seabuckthorn Development Co., LTD., Beijing Powdery Health Industry Co., LTD., Hebei Shenxing Seabuckthorn Research Institute, Altay Sunstone Health Industry Development Co., LTD., Gansu Gannong Biotechnology Co., LTD., Liaoning Dryland Agriculture and Forestry Research Institute, Shanxi Academy of Forestry Sciences.

The main drafters of this standard are: YANG Zhigang, BI Chunmei, JIANG Yihan, LU Shunguang, TU Xiaoning, GAO Yan, XIA Jingfang, ZHANG Bin, WEN Xiufeng, TIAN Xiangrong, LI Xiang, XU Tao, Yang Liu, DUAN Guoqing, ZHANG Yanfeng, DU Zhongyuan, TAN Zhichao, ZHANG Zekai, DENG Zeqiang, FU Yumeng, ZHANG Dongwei, ZHANG Na.

# 沙棘叶茶标准

## Technical standard of seabuckthorn leaf tea

### 1 范围

本标准规定了沙棘叶茶的名称、技术要求、检验方法、检验规则、标志、标签、包装、运输和贮运要求。

本标准适用于以沙棘叶为主要原料，经加工而成的沙棘叶茶。

### 1 Range

This standard specifies the name, technical requirements, inspection methods, inspection rules, marks, labels, packaging, transportation and storage requirements of seabuckthorn leaf tea.

This standard is applicable to seabuckthorn leaf tea which is processed from seabuckthorn leaf as main raw material.

### 2 规范性引用文件

下列文件对于本标准的应用是必不可少的。凡是注日期的引用文件，仅所注日期的版本适用本标准。凡是不注日期的引用文件，其最新版本（包括所有修改单）适用于本标准。

- GB/T 191 包装储运图示标志
- GB 7718 食品安全国家标准 预包装食品标签通则
- GB/T 8302 茶 取样
- GB/T 8303 茶 磨碎试样的制备及其干物质含量测定
- GB 5009.3 食品安全国家标准 食品中水分的测定
- GB 5009.4 食品安全国家标准 食品中灰分的测定
- GB 2762 食品安全国家标准 食品中污染物限量
- GB 2763 食品安全国家标准 食品中农药最大残留限量
- GB 5009.11 食品安全国家标准 食品中总砷及无机砷的测定
- GB 5009.12 食品安全国家标准 食品中铅的测定
- GB 5009.15 食品安全国家标准 食品中镉的测定
- GB 5009.34 食品安全国家标准 食品中二氧化硫的测定
- NY/T 761 蔬菜和水果中有机磷、有机氯、拟除虫菊酯和氨基甲酸酯类农药多残留的测定
- GB/T 8305 茶 水浸出物测定

GB/T 8310 茶 粗纤维测定

GB/T 8311 茶 粉末和碎茶含量测定

GB/T 8313 茶叶中茶多酚和儿茶素类含量的检测方法

GB/T 14487 茶叶感官审评术语

GB/T 18795 茶叶标准样品制备技术条件

GB/T 23776 茶叶感官审评方法

GH/T 1091 代用茶

GB/T 30375 茶叶贮存

GH/T 1070 茶叶包装通则

JJF 1070 定量包装 商品净含量计量检验规则

中华人民共和国药典（2020 年版） 沙棘 总黄酮含量测定

定量包装商品计量监督管理办法 国家质量监督检验检疫总局令【2005】第 75 号

国家质量监督检验检疫总局关于修改《食品标识管理规定》的决定 国家质量监督检验检疫总局令【2009】第 123 号

## 2 Normative reference files

The following documents are essential for the application of this standard. For dated references, only the dated version is available. This standard applies for undated references, the latest version (including all amendment orders) applies to this standard.

GB/T 191 package storage and transportation graphic symbol

GB 7718 National standard for food safety General rules for labeling of prepackaged food

GB/T 8302 Tea sampling

GB/T 8303 Tea ground sample and determination of dry matter content

GB 5009.3 National standard for Food safety Determination of moisture in food

GB 5009.4 National standard for food safety Determination of ash content in food

GB 2762 National standard for food safety Limits for contaminants in food

GB 2763 National standard for food safety Maximum residue limits for pesticides in food

GB 5009.11 National standard for food safety Determination of total arsenic and inorganic arsenic in food

GB 5009.12 National standard for food safety Determination of lead in food

GB 5009.15 National standard for food safety Determination of cadmium in food

GB 5009.34 National standard for food safety Determination of sulfur dioxide in food

NY/T 761 Determination of residues of organophosphorus, organochlorine, pyrethroids and carbamate pesticides in vegetables and fruits set

GB/T 8305 Determination of extracts from tea water

GB/T 8310 tea crude fiber determination

GB/T 8311 Tea powder Crushed tea content determination

GB/T 8313 Tea determination of polyphenols and catechins in tea  
GB/T 14487 Terms for sensory evaluation of tea  
GB/T 18795 Technical conditions for preparation of tea standard sample  
GB/T 23776 Method for sensory evaluation of tea  
GH/T 1091 Substitute tea  
GB/T 30375 Tea storage  
GH/T 1070 General rules for tea packaging  
JJF 1070 Quantitative packaging Rules for measurement and inspection of net content of commodities  
Determination of total flavonoids in seabuckthorn by Pharmacopoeia of the People's Republic of China (2020 edition)  
Measures for the Supervision and Administration of Quantitative Packaged Commodities  
Measurement order of the State Administration of Quality Supervision, Inspection and Quarantine [2005] No.75  
Decision of the General Administration of Quality Supervision, Inspection and Quarantine on Amending the Provisions on the Administration of Food Labeling Order of the General Administration of Quarantine [2009] No. 123

### **3 术语和定义**

**沙棘叶茶 (Seabuckthorn leaf tea)**

以沙棘叶为主要原料，经独特工艺加工而成，具有特定品质的沙棘叶茶。

### **3 Terms and definitions**

Seabuckthorn leaf tea is the product with specific quality made by unique processing technology with seabuckthorn leaf as the main raw material.

### **4 实物标准样**

应符合 GB/T 18795 茶叶标准样品制备技术条件，并根据企业生产销售实际情况设定和更换。

### **4. Physical standard sample**

Should conform to GB/T 18795 tea standard sample preparation technical conditions, and according to the actual production and sales situation of enterprises set and replace.

### **5 外观指标**

#### **5.1 基本要求**

5.1.1 沙棘叶原料卫生质量应符合 GB 2762、GB 2763 相关食品安全国家标准。

5.1.2 品质正常，无异物、无异味、无霉变。

5.1.3 不得添加香精、色素等食品添加剂。

#### **5.2 感官要求**

5.2.1 外形应较匀整、允许有少量嫩茎。

5.2.2 内质应有沙棘特有香气，叶底尚嫩，汤色明亮。

### **5 Appearance specifications**

## 5.1 Basic requirements

5.1.1 The sanitary quality of seabuckthorn leaf raw materials shall comply with GB 2762 and GB 2763 related national food safety standards.

5.1.2 Normal quality, no foreign matter, no odor, no mildew.

5.1.3 Food additives such as flavor and pigment shall not be added.

## 5.2 Sensory requirements

5.2.1 The shape should be fairly uniform, with a few young stems allowed.

5.2.2 The endoplasm should have the unique aroma of seabuckthorn, the leaf is still tender, and the soup color is bright.

## 6 特征指标

特征指标应符合表 1 的规定。

### 6 Characteristic index

The characteristic indicators shall conform to the provisions of Table 1.

表 1 特征指标要求

Table 1 Requirements for characteristic indicators

项目 item	指标 index
总黄酮 (以芦丁计) Total flavonoids (in rutin) (%)	$\geq 1.3$
茶多酚 (以没食子酸计) Tea polyphenols (in gallic acid) (%)	$\geq 5.0$

## 7 理化指标

理化指标应符合表 2 的规定。

### 7 Physical and chemical indexes

Physical and chemical indexes shall conform to the provisions of Table 2.

表 2 理化指标

Table 2 Physical and chemical indexes

项目 item	指标 index
水分 Moisture content (%)	$\leq 8.5$
水浸出物 Water extract (%)	$\geq 28.0$
总灰分 Total ash content (%)	$\leq 7.5$
粗纤维 Coarse fibre (%)	$\leq 15.0$

## 8 卫生指标

应符合 GH/T 1091 的规定。

### 8 Health Indicators

Shall comply with GH/T 1091.

## 9 净含量

应符合《定量包装商品计量监督管理办法》的规定。

## 9 Net content

Shall comply with the provisions of Measures for the Supervision and Administration of Quantitative Packaging Commodities.

## 10 检测方法

10.1 取样 按 GB/T 8302 的规定执行。

10.2 感官品质 按 GB/T 23776 的规定执行。

### 10.3 特征指标

10.3.1 总黄酮 按《中国药典》2020 年版一部沙棘项下的规定执行。

10.3.2 茶多酚 按 GB/T 8313 规定执行。

### 10.4 理化指标

10.4.1 水分 按 GB 5009.3 的规定执行。

10.4.2 水浸出物 按 GB/T 8305 的规定执行。

10.4.3 总灰分 按 GB 5009.4 的规定执行。

10.4.4 粗纤维 按 GB/T 8310 的规定执行。

10.4.5 碎末茶 按 GB/T 8311 的规定执行。

## 10 Detection method

10.1 Sampling shall be performed according to GB/T 8302.

10.2 Sensory quality shall be subject to GB/T 23776.

### 10.3 Characteristic Indicators

10.3.1 Total flavonoids shall be subject to the provisions of Seabuckthorn, Part 1, 2020 Edition of Chinese Pharmacopoeia.

10.3.2 Tea polyphenols shall be subject to GB/T 8313.

### 10.4 Physical and chemical indexes

10.4.1 Moisture shall be subject to GB 5009.3.

10.4.2 Water extracts shall be subject to GB/T 8305.

10.4.3 Total ash content shall be subject to GB 5009.4.

10.4.4 Coarse fibers shall be subject to GB/T 8310.

10.4.5 Broken tea shall be subject to GB/T 8311.

### 10.5 卫生指标

10.5.1 铅按 GB 5009.12 的规定执行。

10.5.2 总砷按 GB 5009.11 的规定执行。

10.5.3 镉按 GB 5009.15 的规定执行。

10.5.4 二氧化硫按 GB 5009.34 的规定执行。

10.5.5 六六六、滴滴涕、三氯杀螨醇、氰戊菊酯、敌敌畏、乐果、毒死蜱、克百威、三唑磷、乙酰甲胺磷、杀螟硫磷按 NY/T 761 的规定执行。

10.6 净含量 按 JJF 1070 的规定执行。

### 10.5 Health indicators

10.5.1 Lead shall be subject to GB 5009.12.

10.5.2 Total arsenic shall be subject to GB 5009.11.

10.5.3 Cadmium shall be subject to GB 5009.15.

10.5.4 Sulfur dioxide shall be subject to GB 5009.34.

10.5.5 BHC, DDT, dicofol, fenvalerate, dichlorvos, dimethoate, chlorpyrifos, carboxil, triazophos, acephate and methamidophos shall be executed in accordance with the provisions of NY/T 761.

10.6 Net content shall be governed by JJF 1070.

## 11 检验规则

### 11.1 取样

11.1.1 取样以“批”为单位，同一批投料生产、同班次加工过程中形成的独立数量的产品为一个批次，同批产品的品质和规格一致。

11.1.2 取样按 GB/T 8302 的规定执行。

### 11.2 检验

#### 11.2.1 出厂检验

每批产品均应做出厂检验，经检验合格签发合格证后，方可出厂。出厂检验项目为外观指标、理化指标和净含量。

#### 11.2.2 型式检验

型式检验每半年应不少于 1 次，型式检验项目为第 5、6、7、8、9 章中要求的全部项目。有下列情况之一时，应进行型式检验：

- a) 新产品投产时；
- b) 生产中，若工艺、设备或原料有较大改变，可能影响产品质量时；
- c) 停产半年以上，重新恢复生产时；
- d) 因人为或自然因素使生产环境发生较大改变时；
- e) 国家质量监督机构或质量主管部门提出型式检验要求时。

### 11.3 判定规则

按本标准要求的項目检验，检验结果全部符合要求时，则判产品为合格品；检验结果中若有一项或项以上不符合要求时均判为不合格产品。

### 11.4 复验

对检验结果有争议时，应对留存样进行不合格项目的复验，无留存样时应在同批产品中重新按 GB/T 8302 规定加倍取样进行不合格项目的复验，以复验结果为准。

## 11 Inspection rules

### 11.1 Sampling

11.1.1 Take "lot" as the unit to sample the independent quantity of products formed in the same batch of feeding production and the same processing for one batch, the same batch of product quality and specifications are consistent.

11.1.2 Sampling shall be performed according to GB/T 8302.

### 11.2 Inspection

#### 11.2.1 Delivery inspection

Each batch of products shall be inspected by the factory, and the certificate of qualification shall be issued before leaving the factory. The ex-factory inspection item is appearance index, physicochemical index and net content.

#### 11.2.2 Type test

The type test shall be conducted at least once every six months. The type test items shall be all the items required in Chapter 5, 6, 7, 8 and 9. Type test shall be carried out under any of the following circumstances:

- a) When new products are put into production;
- b) During production, if there are major changes in process, equipment or raw materials, which may affect product quality;
- c) Production is suspended for more than half a year and production is resumed;
- d) The production environment is greatly changed due to man-made or natural factors;
- e) When the national quality supervision institution or quality competent department puts forward the type test requirements.

### 11.3 Decision rules

The product shall be judged as qualified if all the inspection results meet the requirements of the item in accordance with the requirements of this standard. If one or more of them do not meet the requirements, they will be judged as unqualified products.

### 11.4 Re-inspection

If there is any dispute over the inspection results, the retained samples shall be reinspected for the nonconforming items, and if there is no retained samples, they shall be included in the same batch of products. The unqualified items shall be reinspected by double sampling in accordance with GB/T 8302, and the re-inspection result shall prevail.

## 12 标志、标签、包装、运输和贮存

### 12.1 标志、标签

包装储运图示标志应符合 GB/T 191 的规定；产品标签应符合 GB7718 和《国家质量监督检验检疫总局关于修改〈食品标识管理规定〉的决定》的规定。

### 12.2 包装

包装应符合 GH/T 1070 的规定。

### 12.3 运输

12.3.1 运输工具应清洁、干燥无异味、无污染。

12.3.2 运输时应有防雨、防潮、防暴晒措施。

12.3.3 不得与有毒、有害、有异味、易污染的物品混装、混运。

### 12.4 贮存

应符合 GB/T 30375 的规定。

## 12. Marking, labeling, packaging, transportation and storage

### 12.1 Labels

Package storage and transportation graphic marks shall comply with the provisions of GB/T 191; Product label should comply with GB7718 and *Food Labeling Management Regulations issued by National Administration of Inspection and Quarantine and Quality Supervision*.

### 12.2 Packaging

Packing shall comply with GH/T 1070.

### 12.3 Transportation

12.3.1 The means of transport shall be clean, dry and free of odor and pollution.

12.3.2 Precautions against rain, moisture and exposure should be taken during transportation.

12.3.3 It shall not be mixed with poisonous, harmful, smelly and easily polluted articles.

### 12.4 Storage

It shall comply with GB/T 30375.