

1/1/2025

# CERTIFICATION DOCUMENTATION



## BUCKEYE BOTTLES

4815 State Route 339 (BLDGS B&C) Vincent, OH 45784  
[www.BuckeyeBottles.com](http://www.BuckeyeBottles.com)  
740-371-0887





## TEST REPORT

No. 8621.SH.J1.2410.0181.1 Date: 01.01.2025 Page: 1 / 4

Applicant : BOPETNO, SA /BUCKEYE BOTTLES, LLC  
Address : CALLE SAN MIGUEL #34B5 SECTOR INDUSTRIAL PRESA  
83293 HERMOSILLO, SONORA, MX

Below information submitted by the applicant:

Product Name : PET PREFORM  
Model : Preform-J13-730G  
Model may cover : Main material: PET  
Reference info. : /  
Manufacturer info. : /  
Supplier info. : /  
Buyer info. : /  
Country of Destination : MEXICO  
Country of Origin : China

Sample Received : 10.15, 2024  
Test Period : 10.15, 2024 - 10.21, 2024  
Test Requirement : Refer to next pages  
Test Method : Refer to next pages  
Test Result : Refer to next pages  
Test Conclusion : Refer to next pages



Signed for and on behalf of  
Jordan Wang, General Manager  
BU Chemical Compliance  
TUV THURINGEN (SHANGHAI) CO., LTD.  
Location: Shanghai

### TUV THURINGEN CHINA

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[http://tuv-thuringen.com.cn/news/12\\_138](http://tuv-thuringen.com.cn/news/12_138)

VERSION: 2023.09.01

### TUV THURINGEN (SHANGHAI) CO., LTD.

E-mail: [shanghai@tuv-thuringen.com.cn](mailto:shanghai@tuv-thuringen.com.cn) Tel: 86-21-50651568  
Web.: <https://www.tuev-thuringen.de> [www.tuv-thuringen.com.cn](http://www.tuv-thuringen.com.cn)

Room 2502 Yu'an Building, 738 Dongfang Road, Pudong District, Shanghai, PRC



BUCKEYE BOTTLES



## TEST REPORT

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### RESULT SUMMARY

As requested by the client, test items as below:

Test Items	Verdict
1. US FDA 21 CFR 177.1630 (i): Polyethylene phthalate polymers. - Chloroform-soluble extractives in DI-water, n-heptane, 50% Ethanol	PASS
2. Bisphenol A content	See results

TESTS CARRIED BY:

LAB ID: TTSLCM001; ADD.: ROOM 501, BUILDING 29-1, NO.259, ROAD SHIBEI GAOXIN, CHONGCHUAN, NANTONG, JIANGSU, CHINA

### SAMPLE DESCRIPTION

Sample description: 1# Transparent Blue PET Bottle

### TEST RESULTS

1. 21CFR 177.1630 for Polyethylene phthalate polymers.

1.1. Chloroform-soluble extractives

Test Method: with reference to 21CFR 177.1630 (i)

Test Items	Test Results	Permissible Limit
	1#	
Test Media	Distilled Water	---
Condition	150°F, for 2hours	---
Chloroform-soluble extractives, mg/inch <sup>2</sup>	<0.1	0.2, max
Conclusion	PASS	---

Test Items	Test Results	Permissible Limit
	1#	
Test Media	n-Heptane	---
Condition	120°F, for 2hours	---
Chloroform-soluble extractives, mg/inch <sup>2</sup>	<0.1	0.2, max
Conclusion	PASS	---

Test Items	Test Results	Permissible Limit
	1#	
Test Media	50% Ethanol Alcohol	---
Condition	120°F, for 24hours	---



TUV THURINGEN (SHANGHAI) CO., LTD.

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### 2. Bisphenol A content

**Test Method:** organic solvent extracted with reference to EPA 3540C, analyzed by HPLC-FLD/ LC-MSMS

Test Items	Units	MDL	Test Results	Permissible Limit
			1#	
Bisphenol A content	mg/kg	0.05	n.d.	0.05, max

Note:

- 1, %, percentage; mg, milligrams; g, grams; kg, kilograms
- 2, mg/kg = milligrams per kilograms
- 3, mg/L = milligrams per litre
- 4, 0.1% = 1000mg/kg = 1000mg/L
- 5, < = less than
- 6, > = greater than
- 7, MDL = method detection limit
- 8, N.D. = not detected, < MDL
- 9, N.A. = not applicable
- 10, N.R. = not required
- 11, EX = abbr. of Exempted

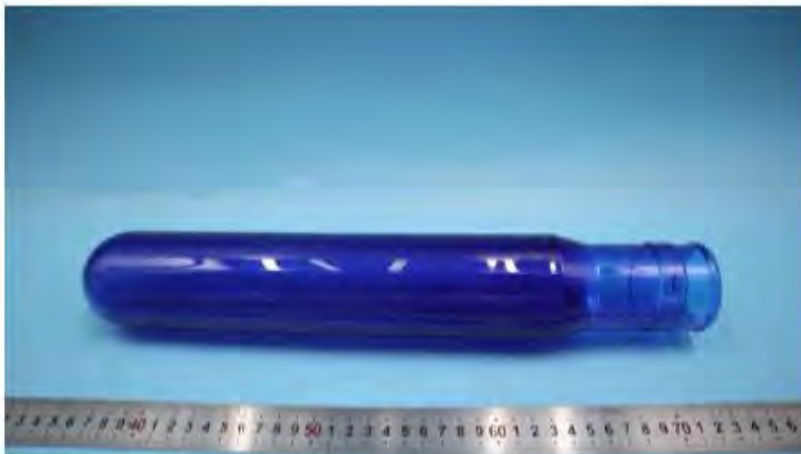
\*\*\*\* To be continued \*\*\*\*



## TEST REPORT

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### SAMPLE IMAGE



*Tested specimen*

\*\*\*\*\* END OF REPORT \*\*\*\*\*

TUV®





## Buckeye Bottles

Mexico/Arizona Manufacturing and Distribution Center – Co-Pack Partner

Jan 01'2025

### **BOPETNO**

Calle Mina San Miguel 34,  
Sector Industrial Presa, 83293  
Hermosillo, Sonora, México

This letter serves to certify that the bottles manufactured at the BOPETNO facility, located at Calle Mina San Miguel 34, Sector Industrial Presa, 83293 Hermosillo, Sonora, México, along with the resin used in their production, meet the following standards and conditions:

I. **Compliance with FDA Regulations**

Our bottles are manufactured in accordance with all applicable regulations under 21 CFR 177.1630.

II. **Protein Integrity**

The protein content of our bottles remains unchanged during the blow molding process and packaging prior to shipment to the consumer.

III. **Moisture Content**

The moisture content of our plastic preforms may vary by  $\pm 10\%$  upon arrival at our facility as they acclimate to the ambient humidity. Our facility maintains an humidity level of 30% ( $\pm 10\%$ ) to ensure optimal performance during the blow molding process. This fluctuation affects only the moisture content and does not alter the chemical composition of the plastic or the quality of the final bottle.

IV. **Packaging and Inspection Protocols**

Preforms are shipped in sealed boxes within enclosed containers. Each preform is individually wrapped in plastic to prevent contamination during transit. Upon arrival, all preforms undergo individual inspection for defects or contamination before entering the manufacturing process.

V. **Allergen Control**

In compliance with the Food Allergen Labeling and Consumer Protection Act of 2004, we certify that our production process does not involve exposure to the following allergens: peanuts, soybeans, milk, eggs, fish, shellfish, tree nuts, or wheat. To further ensure product safety, no food items are permitted within the manufacturing area.



## Buckeye Bottles

Ohio Manufacturing and Distribution Center

1-1-2025

4815 State Route 339  
Vincent, OH 45784  
740-371-0887  
[www.BuckeyeBottles.com](http://www.BuckeyeBottles.com)

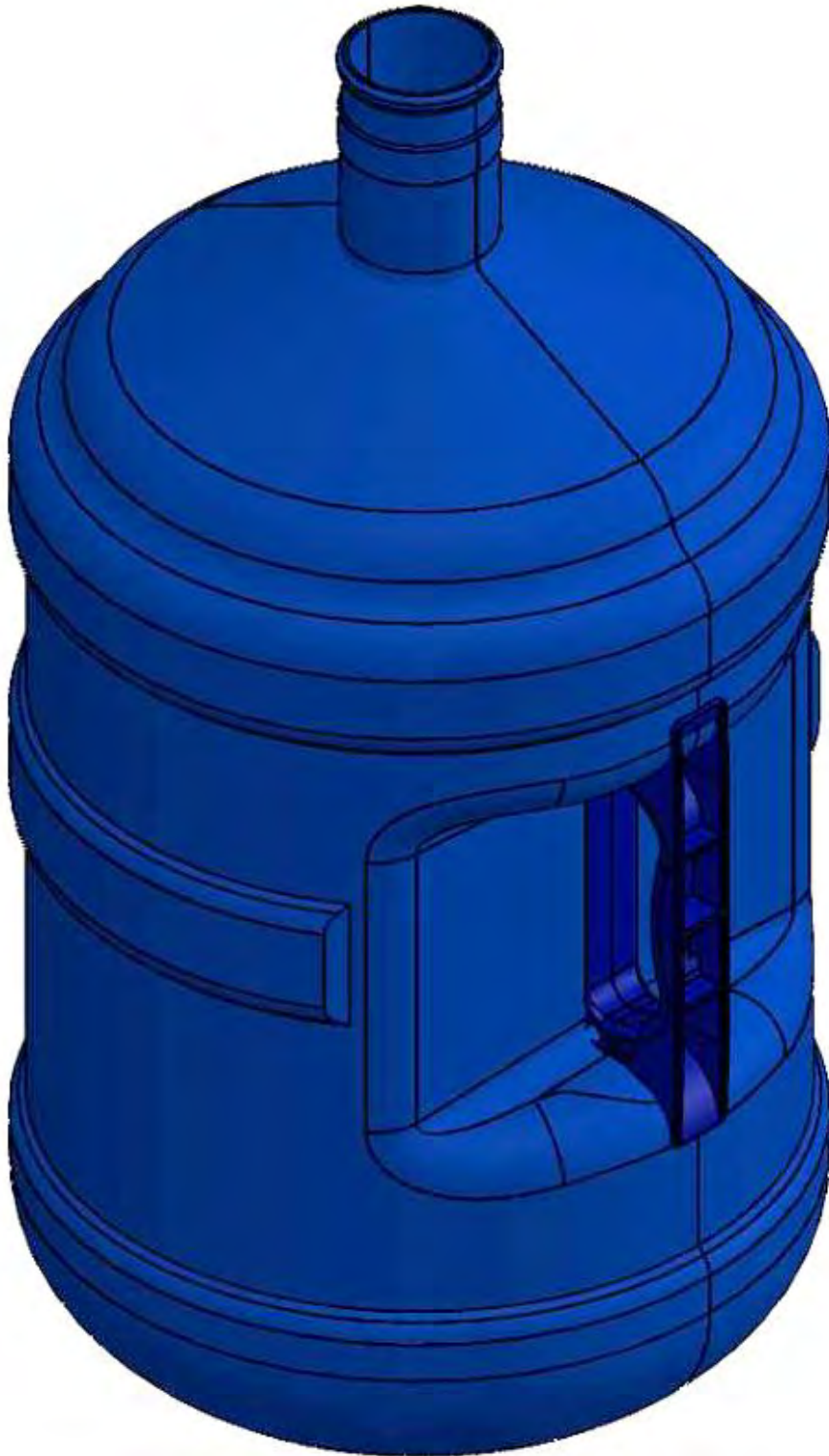
This letter guarantees the bottles manufactured and the resin used in the said manufacturing process at Buckeye Bottles manufacturing facility at 4815 State Route 339 Vincent, OH 45784 are following the following parameters.

- I. FDA regulations. Manufactured bottles comply with all applicable regulations per 21 CFR 177.1630.
  - II. The protein content of our bottles is not changed in the blow molding manufacturing process and/or packaging of the bottles prior to shipment to the consumer.
  - III. The moisture content of our plastic preforms could change +/-10% when it arrives in our facility and acclimates to the humidity in the air at our location. Our facility humidity is kept at 30% (+/-10%) to allow the blow molding process to work properly. This does not affect the content of finished bottle in any way. This does not change the plastic chemical compilation, only the moisture content.
  - IV. The preforms are shipped in an enclosed container in sealed boxes and individually wrapped in plastic containers inside the box. To our knowledge, no contamination occurs during transport. When arriving at our facility, each preform is individually inspected for flaws and contamination of any kind prior to going into the manufacturing process.
  - V. In accordance with the Food Allergen labeling and Consumer Protection Act of 2004, we certify that in our process the following listed allergens do not encounter our bottles: peanuts, soybeans, milk, eggs, fish, shellfish, tree nuts, or wheat. To prevent any potential allergen contamination there are no food products allowed in our manufacturing area.
- Buckeye Bottles, LLC





## **5 GALLON BOTTLE DIMENSIONS and SPECIFICATIONS**



### **ENVIRONMENTAL**

100% Recyclable Bottle AND  
Handle made of BPA FREE PET  
plastic.

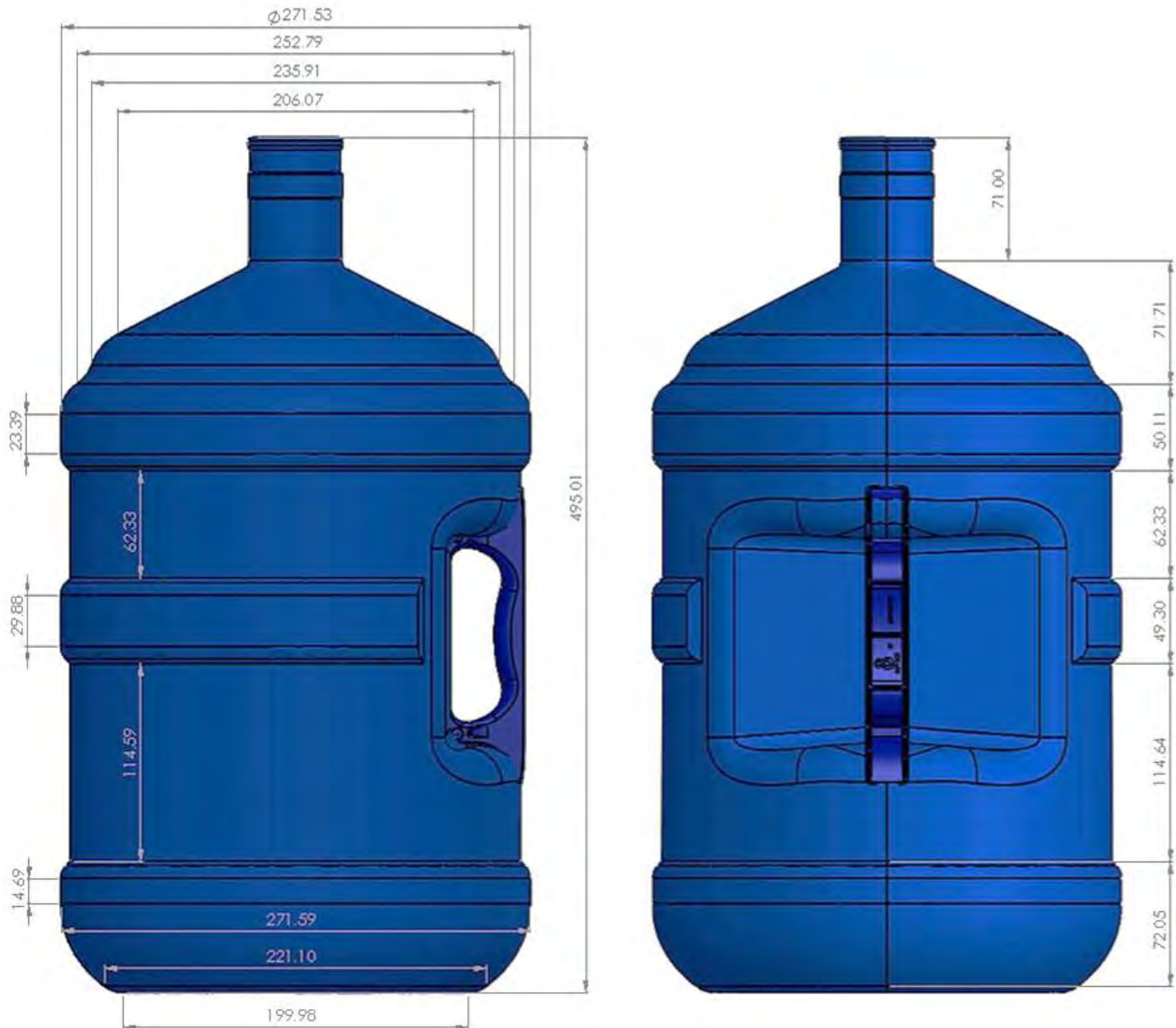
### **LIABILITY**

Injection mold neck giving “leak  
free” advantage when using any  
caps, minimizing water damage  
claims vs polycarbonate  
unevenly “trimmed” neck with  
leak point channels

### **DURABILITY**

The Buckeye Bottle is designed  
for home and office delivery. It  
has 730 Gram weight designed  
to withstand hot and cold  
temperatures and the rough  
route exchanges from truck to  
plant, back to client! Our bottles  
make over 100 cycles on home  
and office delivery routes.

## DIMENSIONS



Overall height:	19.49 Inches (495.01mm)
Overall width:	10.69 inches (271.53mm)
Bottle weight:	730 grams (1.6 pounds)
Handle weight:	62 grams (.1367 pounds)
Total weight:	792 grams (1.75 pounds)





## **Bottom Dome Identifier**



100% Recyclable  
Bottle and Handle

### **Plastic Identifier: PET**

Polyethylene Terephthalate



Buckeye Bottles manufactures PET bottles and handles from recyclable material that is BPA FREE. This material is called Polyethylene terephthalate or PET.

It is a type of thermoplastic polymer resin belonging to the polyester family. It is synthesized through a polycondensation reaction between terephthalic acid (or its dimethyl ester, dimethyl terephthalate) and ethylene glycol.

The resulting polymer consists of repeating units linked by ester bonds, giving PET its characteristic properties. Polyethylene terephthalate has beneficial properties such as *light weight, high tensile strength, transparency and gas barrier*.

These properties make it **highly suitable** for a wide range of applications, including food and beverage packaging, such as pet bottles and pet containers, textile fibers (commonly called pet fibers), and engineering plastics.

When used as a fabric or a fiber, PET is generally called “polyester”, and when it is in more solid forms, like for packaging or containers, it’s referred to as “PET” or “PET resin.”

The melting peak temperature of PET typically ranges between 225 °C and 255 °C, depending on its molecular weight and crystallinity. PET can exist in both amorphous and semi-crystalline forms, which influence its transparency and barrier properties.

Amorphous PET, for example, is transparent and widely used in packaging material to protect food and beverages by providing better barrier properties against gases like oxygen and carbon dioxide.

The raw materials for PET production, such as ethylene glycol and terephthalic acid, are typically derived from crude oil or natural gas, underscoring the importance of recycling to conserve resources and minimize environmental impact.

**BPA FREE:** Buckeye Bottles are BPA FREE.

**DATE CODE:** Includes month and year bottle was manufactured.



## FDA DECLARATION OF COMPLIANCE

Product Code: CC01056300ZF  
Product Name: ALTO BLUE-15  
Certificate Date: 16 MAR 2021 05:01:50 EST  
Expiration Date: 16 MAR 2023

It is hereby declared that the product ALTO BLUE-15 is a material that may be lawfully used as a component of plastic articles that will contact food, subject to the restrictions provided below, in compliance with the Federal Food, Drug, and Cosmetic Act, and all applicable regulations of the U.S. Food and Drug Administration (FDA) as outlined in Title 21 Code of Federal Regulations.

### Restrictions

May be used at levels not to exceed 1,2500% by weight.

The finished articles are to contact foods only under FDA's Conditions of Use C,D,E,F,G as described on the FDA website:  
<https://www.fda.gov/food/packaging-food-contact-substances-fcs/food-types-conditions-use-food-contact-substances>

The finished articles are to contact only the following food types as defined on the website given above:  
I,II,IV-B,VI-A,VI-B,VII-B,VIII

Polymer Types permitted:  
PET

Some of the components used in this formulation may be cleared under the principle of 'no migration'. They are not deemed food additives as they are not reasonably expected to become a component of food under the intended conditions of use. Consideration should be given to the fact that variations in the surface area of a food contact article may affect migration behaviour. Migration behaviour may also be affected by food types and conditions of use.

For use only with aqueous, acidic and low alcohol food types

### General Conditions

The present certificate does not warrant against modifications of ALTO BLUE-15 resulting from its processing or from the addition of other products, nor against any inadequate use and/or storage of ALTO BLUE-15 or the materials and articles containing it.

It is the responsibility of the manufacturer of the finished food-contact article to ensure that all materials used in the production of the finished article have an appropriate regulatory status and are suitably pure (in accordance with 21 CFR 174.5) for the intended use and region of sale, and that any specifications, such as extractives limitations and organoleptic requirements, applicable to the finished product are met.





Buckeye Bottles label application is adhesive, or heat transfer and pressure sensitive label allows you to pick your full color custom label application!

