

CERTIFICATE OF QUALITY

Thermo Fisher Scientific certifies that this product meets the following criteria

Thermo Scientific Nalgene IP2 Bottles

Catalog Numbers:
2099, 2199, 312099 and 312199 Series,
High-density polyethylene bottles
with polypropylene closures

Product Testing

Internal pressure evaluations (15 psi/103 kPa)* are conducted on representative Nalgene® IP2 Bottles for every lot of bottles.

The bottles comply with: United States Department of Transportation's **Title 49 Code of Federal Regulations Section 173.27 (c) (2)**, International Civil Aviation Organization (ICAO): **Technical Instructions on the Safe Transport of Dangerous Goods By Air; Part 4; 1.1.6 and IATA Dangerous Good Regulations Section 5.0.2.9.**

Application Torques

Recommended application torques for Nalgene IP2 Bottles are shown below.

Closure Application Torque

Narrow-Mouth Bottles

	in.-lb.	cm-kg
2099, 312099		
-0001	14	16
-0002	14	16
-0004	17	19
-0008	17	19
-0016	22	25
-0032	33	38
-0010	33	38

Wide-Mouth Bottles

	in.-lb.	cm-kg
2199, 312199		
-0004	33	38
-0008	39	44
-0016	46	52
-0032	56	64

Regulatory Compliance Notification

These Nalgene IP2 Bottles can be used in compliance with the hazardous materials **transportation regulations** as inner packaging components of combination packagings. **Certification must be performed by the user on the entire assembled combination packaging** in accordance with all hazardous materials or dangerous good transportation regulations established by the U.S. DOT, ICAO, IATA, IMO or competent authorities.

NOTE: All other warranties, expressed or implied, including any warranty that the packaging tested is merchantable or fit for a specific purpose, are disclaimed.

NOTE: It is the responsibility of the shipper to confirm that the lading is **chemically compatible** with these Nalgene HDPE bottles with PP closures per federal and international regulations. **Chemical resistance and compatibility guidelines** can be found in the most recent edition of the Nalgene Labware Catalog.

NOTE: For transporting and shipping applications, these bottles are for **single-use** only.

Additional Material Criteria

All component materials of the IP2 bottles have been tested and meet the requirements for United States Pharmacopoeia (**USP**) **Class VI** Biological Test for Plastic, latest volume.

The materials also pass the requirements of the MEM elution Cytotoxicity Procedure utilizing WI38 or MRC5 cell lines. These plastics meet the requirements of the United States Food and Drug Administration (FDA) for food and beverage contact in 21 CFR 177.1520.

***Do not use Nalgene bottles, carboys or other containers under pressure.**

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Contact us for Sales and Service
thermoscientific.com/contactus

*Contact information contained within this document may be incorrect.

Look for the IP2 Mark

The bottom of each bottle in this product series is marked with an "IP2" slug for simple identification and differentiation from other Nalgene Bottles which are not performance tested. The familiar Nalgene typemark is also included on the base of the bottles.

Other Product Features

For accurate placement in **labeling and silk-screening** machines, a registration notch is molded in the bottom of each bottle.

These bottles are the same **tough, split-resistant containers** developed for stringent laboratory applications.

Linerless Nalgene closures form a **leakproof sealing system** with these Nalgene bottles. The closure's seal ring fits tightly against the beveled inner edge (chamfer) of the bottle neck forming a valve seal as the closure is tightened.

A **shrink-seal ring** is molded into all IP2 bottles.

WARNING: Do not use Nalgene bottles, carboys or other containers under pressure or vacuum. The application of **pressure or vacuum** to products not designed for such use may result in failure of the products, damage leading to property and/or personal injury.

For additional information, please contact Thermo Scientific Technical Service at one of the numbers below or visit www.nalgenelabware.com.

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