## **Product Information Statement**

The information contained in this document pertains to the material used to manufacture AltemisLab AlteTube™ products.

#### **REASON FOR USE**

To help customers determine if AlteTube™ products are suitable for their application. While we have conducted the tests below, we strongly recommend customers perform their own testing. Samples are available upon request.

#### Grade of Material;

Virgin Grade Polyproplene. SJ-170M; is a homo polymer resin produced through the polymerization of propylene. This grade is designed to be processed in conventional Injection moulding equipment and shows good thermal stability and high melt-flow.

# altonislab ...

#### **Features:**

- **Thermal Stability** can withstand high temperatures without degradation..
- **High Transparency** allows for clear visibility.
- **High Melt-Flow** for easy processing during injection moulding.

#### CE Certification vs. CE Marking – What This Means for AltemisLab Products

At AltemisLab, we often receive questions about CE marking and our product compliance. It's important to understand that while our products are CE certified, they are not CE marked—and for good reason.

According to the European Commission's 2012 guidelines, CE marking is required only for in vitro diagnostic medical devices that are specifically intended for defined diagnostic procedures. Further clarification published in 2021 by leading European life science organisations (GAMBICA, FHI, LABMAS, Laborama, SPECTARIS) confirms that general laboratory products—such as sample storage tubes—should not carry CE marking.

CE marking is a visible symbol that a product complies with relevant EU directives related to safety, health, and environmental protection. While essential for certain product categories (e.g. medical devices, electronics, toys), it is not applicable to general laboratory consumables.

AltemisLab's products are manufactured under ISO 9001 and ISO 14001 certified conditions, ensuring high standards of quality and environmental management. We hold the necessary CE certification documents to support the compliance of our materials, but as our sample storage tubes are classified as general laboratory products and not medical devices or diagnostic tools, CE marking cannot be applied.



AltemisLab certifies that this product meets the following criteria, in reference to the medical grade virgin polypropylene:

Product Information			
Chemical Name	Polypropylene		
Other Names	Resin		
Grade	SJ-170M		
CAS no.	9003-07-0		
Content (wt%)	>=95 ~<=100		
Features	<ul> <li>For Medical Injection Moulding</li> <li>High rigify, high transparency</li> <li>USP Class VI FDA DMF, Gamma Ray and E-beam Sterilization Stability</li> </ul>		

	Test Method/Standard	Unit	Value
Physical Properties			
Melt Flow Index, MFI (230°C, 2.16kg)	ASTM D 1238	g/10min	26.0
Density	ASTM D 792	g/cm <sup>3</sup>	0.9
Mechanical Properties			
Tensile Strength at Yield	ASTM D638	Kfg/cm <sup>3</sup>	370
Elongation at break	ASTM D638	%	≥100
IZOD Impact Strength	ASTM D256	Kgf.cm/cm	3.0
Load Deflection Temperature ((4.6kg/f/cm³))	ASTM D648	оС	115

Disclaimer: The Information in this document is accurate to best of our knowledge at the date of publication. It is the responsibility of users to determine whether the product is suitable for their use and can be used safely and in compliance with existing laws and regulations. The statement provided is exclusively for our user. It is not intended for publication either in printed or electronic form (e.g. via Internet) by others. Thus, neither partial nor full publication is allowed without our prior written permission.



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#### **Endotoxin (Pyrogens):**

AlteTubes have been tested according to ISO 10993-5:2009, USP, Biological Reactivity Test, In Vitro with Limulus Amebocyte Lysate (LAL) reagent. No pyrogens were detected.

Results: Test sample extraction had an undetectable level of endotoxin at <0.25 Eu/mL.

#### **Leachables and Extractables Testing**

During the manufacturing of plastic consumables, certain chemical compounds are often used to enhance product stability, durability, and performance. However, these compounds—known as leachables and extractables—can pose a risk to scientific integrity by introducing variables that may interfere with sensitive assay systems.

**Extractables** are compounds that can be drawn out of the material when exposed to solvents under laboratory conditions.

**Leachables** are compounds that migrate into the sample during normal use, due to direct contact with the container.

To ensure the highest standards of sample integrity and experimental reliability, our AlteTube™ 2D tubes have been rigorously tested for both extractables and leachables. Testing confirms that these compounds are not present in our tubes, helping reduce the risk of assay interference and contamination.

AlteTubes, including all components used in the packaging, are free of; lead (Pb), cadmium (Cd), mercury (Hg), and hexavalent chromium (Cr6+).

This product does not contain phthalates.

This product does not contain latex.

This product does not contain Bisphenol A (BPA).

Protocol used an extract profile for the above tests, carried out by STERIS.

(STERIS Applied Technologies is a global provider of contract sterilization, laboratory testing and product and packaging testing services; and integrated sterilization equipment, control systems, and radiation dosimetry to support medical device and pharmaceutical manufacturers.

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#### **PCR Inhibitors**

qPCR and rt-qPCR testing confirms AlteTubes are free from DNA, DNase, RNA and RNase.

#### **Batch Consistency**

Customers may request product manufactured from a single batch or Lot No.

#### **Barcode Reading Test:**

Each tube is permanently laser-etched with 2D barcodes that are unique for each tube. Every coded tube is checked for 100% readability and uniqueness.

#### **Leak Testing:**

Tubes are periodically tested for leaks.

#### AlteClean™ Sterile

AlteClean<sup>TM</sup> Sterile products meet the AlteClean<sup>TM</sup> specifications for non-viable contaminants and have also been Electron Beam (E-beam) treated, meeting a minimum requirement of  $10^{-6}$  SAL (Sterility Assurance Level).

E-Beam Sterilisation is a form of ionizing energy that is characterized by its low penetration and high-dosage rates. The beam, a concentrated, highly charged stream of electrons, is generated by accelerators capable of producing continuous or pulsed beams. As the product/material being sterilized passes the E-Beam, energy from the electrons is absorbed, altering various chemical bonds, damaging the DNA, and destroying the reproductive capabilities of the micro-organisms.

#### **Test:**

Validation of E-Beam sterilisation to ensure the sterility assurance level (SAL) 10-6

#### Conclusion

When the sterilisation dose (21.94kGy) used to irradiate under routine process, the minimum sterilisation dose of 15kGy is achieved and the maximum dose is managed under acceptable dose (45kGy) in the product, so process effectiveness of E-Beam sterilisation is established, and the aseptic guaranteed level (SAL) is 10<sup>-6</sup>.

#### Amber colour concentrates

Product Information:

Chemical Name: Brown Polypropylene Based Colour Concentrates

**CAS No.**: 13463-67-7

Item	Unit	Value
Heat Stability	Degrees Celsius	280
Heavy Metal Free	N/A	YES
Diarylide Free	N/A	YES
Light Fastness	Grade (Blue Wool)	8

Storage: Store at cool and dry place and protected from sunlight.

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#### Transport by aircraft:

AlteClean<sup>™</sup> meet the pressure requirements for transportation by aircraft as per the 63rd edition of IATA Dangerous Goods Regulations (The primary receptacle or the secondary packaging must be capable of withstanding, without leakage, an internal pressure of 95 kPa.)

95kPa pressure differential tests were performed and upon testing at the various temperature ranges, no leaks were detected after each test. The following table provides a summary of the test.

Test	Observation	Results
Dwell at +55OC for 30 mins followed by 1hr 95kPA pressure differential	No leaks detected	Pass
Dwell at -40OC for 30 mins followed by 1hr 95kPA pressure differential	No leaks detected	Pass

#### **Treatment: Vortexing and Centrifugation**

Centrifugation, max. RCF 5800 x g: swinging-bucket rotor 26000 x g: fixed angle rotor

PLEASE NOTE: for full or partially racked tubes, tubes must be supported from underneath to prevent damange to the rack.

Centrifugation to be done at ambient temperatures.

#### Septum caps mats and use with DMSO

Component material: TPE (thermoplasticelastomer)

AlteTube Septum cap mats are made of an advanced there

AlteTube Septum cap mats are made of an advanced thermoplastic elastomer (TPE). They are suitable for use with DMSO-based samples due to the high chemical resistance of TPE. Properties of TPE also include low evaporation and water uptake in DMSO based samples\*

\*we recommend you carry out your own testing in case of a more specific application.

Emma Ryan Director

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#### **Declaration of Conformity**

AltemisLab certifies that our AlteTube™ manufacturer site meets the below standards under the EU Directive 2011/65/EU of the European Parliment and of the Council of the 8th June 2011.

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### **Declaration of Conformity**

Product Name: AlteTube SBS Tubes Reference Report No.: ATL-RoHS-250226-1

The above product has successfully demonstrated that its product is in compliance with

#### **Restriction Environmental of Hazardous Substances Directive**

This declaration of conformity is issued under the sole responsibility of the manufacturer. The Object of the declaration does not contain any of the substances in excess of the maximum concentration values in EU Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011, unless the substances are in an application that is exempt under RoHS.

Maple LS corporation. is compliant with the amendment to ANNEX 2, dated March 31, 2015 additionally restricts the use of DEHP, BBP, BDP and DIBP in Electrical and Electronic Equipment and becomes effective July 22, 2019.

The following technical specifications have been applied:

IEC 62321-4:2013+AMD1:2017 CSV, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017

We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s)

Date of Issue: Mar. 20, 2025

Manufacturer Signature :





#### ISO 9001:2015 Certification

AltemisLab certifies that our AlteTube™ manufacturer site Environmental Management System has been assessed by Orion Registrar and found to be in compliance with the above quality standard.





#### ISO 14001:2015 Certification

AltemisLab certifies that our AlteTube™ manufacturer site Environmental Management System has been assessed by Orion Registrar and found to be in compliance with the above quality standard.

