

Avertin (Ready-to-Use, for Mouse)

Cat. No.: R1511178 | Pack size: 10ml / 5×10ml / 10×10ml | Storage: Store at 2-8°C, Protected from light

Product Information

Item	Description
Product name	Avertin (Ready-to-Use, for Mouse)
Catalog No.	R1511178
Pack size	10ml / 5×10ml / 10×10ml
Specifications & Purity	BioReagent, ready-to-use, sterile, 1.25%
Synonyms	Avertin Ready-to-Use Avertin for Mouse 1.25% Avertin Tribromoethanol for Ready Use (Mouse)
Storage	Store at 2-8°C, Protected from light
Shipped in	Wet ice
Application	In Vivo Imaging, Nude Mouse Tumorigenicity Assay
Stability and storage	Store at 2-8°C long term (12 months). Store in the dark.
CAS	75-80-9
Molecular Weight	282.76
EC Number	200-903-1
PubChem CID	6400

Contents & Storage

Pack Size	Storage	Shipping
10ml	Store at 2-8°C, Protected from light	Wet ice
5×10ml	Store at 2-8°C, Protected from light	Wet ice

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10×10ml	Store at 2-8°C, Protected from light	Wet ice

Overview

This product is a ready-to-use sterile anesthetic, with the active ingredient Tribromoethanol (TBE, also known as Avertin). It is a non-controlled substance. This reagent has been recommended for anesthesia in surgical procedures related to transgenic mouse breeding, and is suitable for use in pregnant mice without affecting the pregnancy process or fetal viability. It is administered via intraperitoneal injection, making it simple and convenient to use. The anesthetic takes effect in <5 minutes and lasts for 24–90 minutes. It is intended only for anesthesia in rodent mice.

Product Advantages

- Superior to chloral hydrate.
- Suitable for anesthesia in pregnant mice.
- Rapid onset: <5 minutes.
- Long duration: 24–90 minutes.
- Ethically approved and recognized in SCI-indexed publications.

Anesthesia Duration Validation

Strain	Age (weeks)	Injection Dose	Administration Route	Onset Time	Anesthesia Duration
C57BL/6	6-8	20 µL/g	Right intraperitoneal injection	<2 min	30-90 min
BALB/c	6-8	20 µL/g	Right intraperitoneal injection	<2 min	30-90 min

The above doses are based on our validation studies using common protocols. Actual dosage may need adjustment depending on mouse/rat age, strain, or individual variation. To extend anesthesia duration, a supplemental dose of one-third of the initial dose may be administered. Users are advised to conduct pilot experiments according to their specific needs.

Precautions

1. After opening, it is recommended to use within 2 weeks. Prolonged storage may lead to precipitation or decomposition of components, reducing anesthetic efficacy or even causing peritonitis. Before use, always check the expiration date on the label and observe whether the solution has changed color or developed crystals. If crystals have formed, dissolve them in a 37°C water bath. Perform a pilot experiment before formal studies.

2. Recommended anesthetic doses:

~4-week-old mice: 16 μ L/g.

~6-week-old mice: 18 μ L/g.

Mice $\geq$ 8 weeks: 20 μ L/g.

(These are recommended starting doses; adjust according to actual conditions.)

To accelerate recovery, a heating pad may be used to raise the ambient temperature.

3. For research use only (non-clinical research).

Safety & Precautions

1. Read the current SDS before use and handle the product according to local laboratory safety and EHS procedures.

2. Animal use must be reviewed and approved by the relevant institutional animal care and use committee and performed by trained personnel.

3. Wear a lab coat, disposable gloves, and appropriate eye protection during operation.

4. For research use only. Do not use for clinical diagnosis, treatment, food, cosmetic, or household applications.

Quality Control

QC Item	Method	Acceptable Range
Appearance	Visual inspection	Product-consistent appearance with no leakage or abnormal contamination
Functional performance	Use according to the recommended procedure in a pilot experiment	Expected depilation or anesthetic performance is obtained within the recommended operating range

QC Item	Method	Acceptable Range
Storage condition	Review label and COA before use	Stored under recommended conditions; product label and lot-specific COA remain legible

Troubleshooting

Issue	Possible Causes	Corrective Action
Incomplete depilation or insufficient anesthesia	• Contact time or dose not appropriate • Individual animal variation • Product not equilibrated or mixed as required	• Follow the recommended procedure and adjust only after pilot testing • Consider animal strain, age, weight, and condition • Mix or equilibrate according to product instructions
Skin irritation or delayed recovery	• Excess contact time or excessive dose • Individual sensitivity • Ambient temperature or handling not controlled	• Use the minimal effective contact time or dose • Conduct pilot experiments • Provide appropriate monitoring and environmental support
Crystals, precipitation, or performance decrease	• Storage condition not maintained • Product used long after opening	• Check label and expiration date • Re-dissolve only as instructed, and use promptly after opening

Recommended Applications

In Vivo Imaging · Nude Mouse Tumorigenicity Assay.

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any product component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.