

UltraCruz[®] Mounting Medium, 10 ml: sc-24941

BACKGROUND

UltraCruz[®] Mounting Medium is an aqueous based formula designed to preserve fluorescence. UltraCruz[®] Mounting Medium inhibits photobleaching of probes containing fluorescein, Texas Red, rhodamine and other fluorochromes. Cells or tissue sections mounted in UltraCruz[®] Mounting Medium retain fluorescence during prolonged storage.

PRODUCT

UltraCruz[®] Mounting Medium is supplied as a 10 ml solution containing 1.5 µg/ml of 4',6-diamidino-2-phenylindole (DAPI), which is very useful as a DNA counterstain. This product is designed to be used for *in situ* hybridization techniques or for other procedures requiring fluorescent labeling of DNA. DAPI excites at about 360 nm and emits at about 460 nm when bound to DNA, producing a blue fluorescence. DAPI may also stain RNA.

PROTOCOL AND USAGE

UltraCruz[®] Mounting Medium is supplied in a bottle fitted with a cone-seal cap. The cone-seal cap can be replaced with a drop dispenser cap (not included) for routine use and during storage. It is recommended that once a drop dispenser cap has been secured on the bottle, the bottle should be stored in an upright position.

ULTRACRUZ[®] MOUNTING MEDIUM PROCEDURE

To mount tissues or cells on a slide, dispense one drop of UltraCruz[®] Mounting Medium onto the section.

Then coverslip and allow UltraCruz[®] Mounting Medium to disperse over the entire section. Applying an excess of mounting medium is not recommended.

UltraCruz[®] Mounting Medium does not solidify, but remains a liquid on the slide. After mounting, coverslipped slides will not readily dry out and can be reviewed for weeks afterward without sealing.

For prolonged storage coverslips can be permanently sealed around the perimeter with nail polish or a plastic sealant. Mounted slides should be stored at 4° C protected from light.

Texas Red is registered trademark of Molecular Probes (6/02).

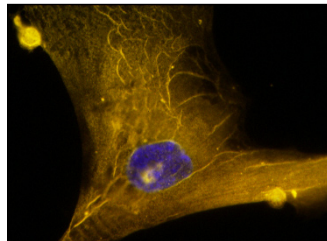
PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

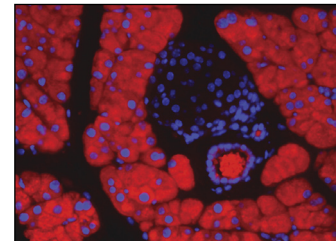
STORAGE

Store at 4° C in the dark; stable for one year from the date of shipment.

DATA



UltraCruz[®] Mounting Medium: sc-24941. Immunofluorescence staining of a methanol-fixed WI-38 cell. Note cytoplasmic and cytoskeletal rhodamine immunostaining (orange) and nuclear DAPI counterstain (blue). Antibody tested: Annexin VI (N-19).



UltraCruz[®] Mounting Medium: sc-24941. Immunofluorescence staining of formalin fixed, paraffin-embedded murine pancreas tissue showing Amylase in zymogen granules within the acinar cells, and secreted amylase present in ducts (red), counterstained with DAPI (blue) to identify cell nuclei. Islets of Langerhans are not stained with the amylase antibody. Antibody tested: Amylase (K-16). Courtesy of Mehrdad Alirezai, Ph.D. and Professor J. Lindsay Whitton, M.D., Ph.D., Scripps Research Institute.

SELECT PRODUCT CITATIONS

- Dey, S., et al. 2009. Cell cycle specific expression and nucleolar localization of human J-domain containing co-chaperone Mrj. *Mol. Cell. Biochem.* 322: 137-142.
- Muralidhar, S.A., et al. 2011. Histone deacetylase 9 activates γ -globin gene expression in primary erythroid cells. *J. Biol. Chem.* 286: 2343-2353.
- Shao, C., et al. 2014. Activation of angiotensin type 2 receptors partially ameliorates streptozotocin-induced diabetes in male rats by islet protection. *Endocrinology* 155: 793-804.
- Kanno, S., et al. 2015. Pifithrin- α has a p53-independent cytoprotective effect on docosahexaenoic acid-induced cytotoxicity in human hepatocellular carcinoma HepG2 cells. *Toxicology letters.* 232: 393-402.
- Ito, T., et al. 2016. Activation of the OVOL1-OVOL2 axis in the hair bulb and in pilomatricoma. *Am. J. Pathol.* 186: 1036-1043.
- Sterzynska, K., et al. 2018. Myotilin, a new topotecan resistant protein in ovarian cancer cell lines. *J. Cancer* 9: 4413-4421.
- Gkouveris, I., et al. 2019. Vasculature submucosal changes at early stages of osteonecrosis of the jaw (ONJ). *Bone* 123: 234-245.
- Shimokawa, M., et al. 2020. Modulation of Nqo1 activity intercepts anoikis resistance and reduces metastatic potential of hepatocellular carcinoma. *Cancer Sci.* 111: 1228-1240.
- Leerach, N., et al. 2021. RAGE signaling antagonist suppresses mouse macrophage foam cell formation. *Biochem. Biophys. Res. Commun.* 555: 74-80.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

UltraCruz™ Mounting Medium: sc-24941



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Product and company identification

Product Name: UltraCruz™ Mounting Medium

Product Number: sc-24941

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. Hazards identification

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

3. Composition/information on ingredients

Chemical characterization: Mixture of substance(s) listed below with non-hazardous additions

<i>Substance</i>	<i>CAS#</i>	<i>EC#</i>	<i>% by weight</i>
Glycerol	56-81-5	200-289-5	85%

Classification: Xn; R20/21/22-36/37/38

4. First-aid measures

Inhalation: Remove to fresh air. Obtain medical attention.

Skin contact: Wash thoroughly with water for at least 15 min. Obtain medical attention.

Eye contact: Wash thoroughly with water for at least 15 min. Obtain medical attention.

Ingestion: Do not induce vomiting. If person is conscious, wash out mouth with water. Obtain medical attention.

5. Fire-fighting measures

Suitable extinguishing media: Water, foam, carbon dioxide

Special protective equipment: Use respirator. Toxic gases can be evolved.

6. Accidental release measures

Wear protective clothing to prevent contact with eyes and skin. Ensure adequate ventilation. Flush to sewer, if allowed or collect on absorbent material and dispose of according to local and regional regulations.

7. Handling and storage

Handling: Use only with adequate ventilation. Wear eye protection and compatible chemical-resistant gloves.

Storage: Store in a refrigerator.

8. Exposure controls/personal protection

Engineering methods: Use enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below recommended exposure limits.

Exposure limit: TWA 10 mg/m³ from ACGIH. Consult local authorities for acceptable exposure limits.

Personal protection

Hand protection: Compatible chemical-resistant gloves

Eye protection: Chemical safety goggles

Skin protection: Lab coat

9. Physical and chemical properties

Appearance:	Liquid	Odor:	None
pH:	Not determined	Boiling point:	Not determined
Melting point:	Not determined	Flash point:	Not determined
Autoflammability:	Not determined	Vapor pressure:	Not determined
Relative density:	Not determined	Solubility:	Not applicable

10. Stability and reactivity

Conditions to avoid: Not determined

Materials to avoid: Strong oxidizers, strong bases

Hazardous decomposition products: Carbon monoxide, carbon dioxide.

11. Toxicological information

Acute effects: May cause skin irritation, eye irritation, mucus membrane irritation. May be harmful if swallowed.

Chronic effects: No data available.

RTECS#: MA8050000

Toxicity data:

orl-rat LD50: 12600 mg/kg

orl-gpg LD50: 7750 mg/kg

scu-rat LD50: 100 mg/kg

Only selected RTECS data is shown. See actual entry for complete information.

12. Ecological information

Data not yet available.

13. Disposal considerations

Observe all local or regional regulations.

14. Transport information

Data not yet available.

15. Regulatory information

Hazard symbols: Xn; Harmful

Risk phrases:

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety phrases:

S28 After contact with skin, wash immediately with plenty of soap-suds

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

1/20/2011