UltraCruz® Hard-set Mounting Medium with DAPI: sc-359850



The Power to Question

BACKGROUND

UltraCruz® Hard-set Mounting Medium is an aqueous based formula designed to preserve fluorescence. UltraCruz® Hard-set Mounting Medium inhibits photobleaching of probes containing fluorescein, Texas Red, Rhodamine and other flurochromes. Cells or tissue sections mounted in UltraCruz® Hard-set Mounting Medium hardens when cover-slipped and retains fluorescence during prolonged storage.

REFERENCES

- 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.
- Walkiewicz, M.A. and Stern, M. 2009. Increased Insulin/insulin growth factor signaling advances the onset of metamorphosis in *Drosophila*. PLoS ONE 4: e5072.
- Gössl, M., et al. 2009. Prevention of vasa vasorum neovascularization attenuates early neointima formation in experimental hypercholesterolemia. Basic Res. Cardiol. 104: 695-706.
- Xi, D., et al. 2009. Dizocilpine (MK-801) induces distinct changes of N-methyl-D-aspartic acid receptor subunits in parvalbumin-containing interneurons in young adult rat prefrontal cortex. Int. J. Neuropsychopharmacol. 12: 1395-1408.

PRODUCT

UltraCruz® Hard-set 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® Hard-set 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® HARD-SET MOUNTING MEDIUM PROCEDURE

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

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

UltraCruz® Hard-set Mounting Medium dries completely when slides are cover-slipped. Sections may be viewed immediately using a fluorescent microscope; it takes approximately 15 minutes for the coverslip to become immobilized and will completely harden overnight (at 4° C).

PROTOCOL AND USAGE CONT.

If air bubbles form, or the DAPI counterstain intensity decreases during prolonged storage, remove coverslip and remount. Coverslips can be easily removed after hardening by soaking in PBS overnight.

NOTES

When mounting thick tissue sections, the mounting medium may not harden properly. Use of non-hardening UltraCruz™ Mounting Medium (sc-24941) may be preferred.

If cells are grown in chamber slides, remove the hydrophobic gasket before mounting or use a coverslip that fits within the gasket.

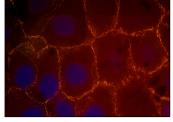
If cells have been fixed in 100% methanol, the nuclear counterstain will diffuse out of nuclei over time. In this case non-hardening UltraCruz[®] Mounting Medium (sc-24941) may be preferred.

Texas Red® is a trademark of Molecular Probes, Inc., Oregon, USA (6/02)

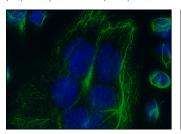
DATA



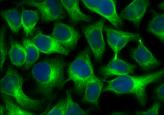
UltraCruz® Hard-set Mounting Medium: sc-359850. Immunofluorescence staining of methanol-fixed HeLa cells showing fluorescein immunostaining of cytoskeletalassociated nm23 (green) and nuclear DAPI counterstain (blue). Antibody tested: nm23-H1 (NM301): sc-465.



UltraCruz® Hard-set Mounting Medium: sc-359850. Rhodamine immunofluorescence staining of methanolfixed A-431 cells showing membrane localization of β-catenin (red) and DAPI nuclear counterstain (blue). Antibody tested: 6-catenin (E-51: sc-7963.



UltraCruz® Hard-set Mounting Medium: sc-359850. Immunofluorescence staining of methanol-fixed HeLa cells showing membrane localization of P2X5 (green) and nuclear DAPI counterstain (blue). Antibody tested: P2X5 (H-5): sc-365036.



UltraCruz® Hard-set Mounting Medium: sc-359850. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic localization of α Tubulin (green) and nuclear DAP1 counterstain (blue). Antibody tested: α Tubulin (B-7): sc-5286.

STORAGE

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

RESEARCH USE

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com



The Power to Question

SAFETY DATA SHEET

Santa Cruz Biotechnology, Inc.
Revision date 04-Jan-2018
Version 1.1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name UltraCruz® Hard-set Mounting Medium
Product Code SC-359850

Recommended use of the chemical and restrictions on use

For research use only. Not intended for diagnostic or therapeutic use.

Details of the supplier of the safety data sheet

Santa Cruz Biotechnology, Inc. 10410 Finnell Street Dallas, TX 75220 831.457.3800 800.457.3801 scbt@scbt.com **Emergency telephone number**

Chemtrec 1.800.424.9300 (Within USA) +1.703.527.3887 (Outside USA)

2. HAZARDS IDENTIFICATION

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Classification

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Signal word Not classified Hazard statements Not classified Symbols/Pictograms Not classified

Precautionary Statements - Prevention Wash hands thoroughly after handling

Precautionary Statements - Response IF exposed or concerned: Get medical advice/attention

Hazards not otherwise classified (HNOC)

Hazards not otherwise classified (HNOC) Not applicable

Other Information

Unknown acute toxicity

100% of the mixture consists of ingredient(s) of unknown toxicity.

NFPA Health hazards - Flammability -

Stability

Physical and chemical

properties



HMIS Health hazards

Flammability
Physical hazards
Personal protection

3. COMPOSITION/INFORMATION ON INGREDIENTS

Molecular Weight No information available Formula No information available

Chemical Name	CAS No	Weight %	Oral LD50	Dermal LD50	Inhalation LC50

Ultra	aCruz® Hard-set	-	>98	-	-	-
Mo	unting Medium					

4. FIRST AID MEASURES

First Aid Measures

Ingestion

General advice Immediate medical attention is required.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and Eye contact

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Call a physician

immediately.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

Inhalation Immediate medical attention is required Remove to fresh air If not breathing, give artificial

respiration Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation Do NOT induce vomiting. Call a physician or poison control center immediately. Never give

anything by mouth to an unconscious person. Drink plenty of water.

Self-protection of the first aider Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable Extinguishing Media None.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

No information available.

Hazardous combustion products No information available.

Explosion data

for firefighters

Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

Protective equipment and precautions for firefighters

Protective equipment and precautions As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH

(approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Keep people away from and upwind of

spill/leak.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or

tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover

powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into

suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Store at 4 °C.

Incompatible materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State liquid

Appearance No information available Odor No information available

<u>Property</u> <u>Values</u>

PH No information available
Melting point/freezing point No information available
Boiling point No information available

Flash point No information available Density No information available Evaporation rate No information available Upper flammability limits No information available Lower flammability limit No information available Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility No information available Solubility in other solvents No information available Partition coefficient No information available Autoignition temperature No information available Decomposition temperature No information available Kinematic viscosity No information available Explosive properties No information available Oxidizing properties No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization No information available.

Conditions to avoid Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation No data available. No data available. Eve contact Skin Contact No data available. Ingestion No data available.

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available.

Target Organ Effects Eyes, Respiratory system, Kidney, Skin.

Numerical measures of toxicity - Product Information

100% of the mixture consists of ingredient(s) of unknown toxicity Unknown acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 90000 ATEmix (dermal) 71429 ATEmix (inhalation-vapor) 4071

12. ECOLOGICAL INFORMATION

May cause long lasting harmful effects to aquatic life **Ecotoxicity**

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability No information available. Bioaccumulation No information available. Mobility No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

14. TRANSPORT INFORMATION

DOT Not regulated

IMDG Not regulated

IATA Not regulated

15. REGULATORY INFORMATION

International Inventories

All of the components in the product are on the following Inventory lists

No information available

X - Listed

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive hazard No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

16. OTHER INFORMATION

Revision note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet