

XIII. Radioactive Materials

Section XIII of the Modifications of Activities Planned for 2006-2007 lists any changes in the radioactive materials used during this time period and provides information regarding their form, nuclide, site, and specific use.

Add

<u>PROJECT</u>	<u>NUCLIDE</u>	<u>FORM</u>	<u>SITE</u>	<u>USE</u>
B-195-M	¹⁴ C	³¹⁴ C – d-glucose	McMurdo Station and vicinity	Microbial diversity and function in the permanently ice-covered lakes of the McMurdo Dry Valleys
B-422-M	³ H	¹³ H – Leucine	McMurdo Station and vicinity	The Role of Natural Legacy on Ecosystem Function and Structure in a Polar Desert
G-091-M	¹³⁷ Cs ²⁴¹ AmBe	¹³⁷ Cs - Sealed Source ²⁴¹ AmBe - Sealed Source	McMurdo Station	ANDRILL
I-153-M	²⁴¹ Am	²⁴¹ Am - Sealed Source	McMurdo Station	ITASE
B-024-M	³ H	³ H - Water	McMurdo Station / Hutton Cliffs	
B-069-M	⁴⁵ Ca	⁴⁵ Ca - Calcium	McMurdo Station	

Delete

PROJECT	NUCLIDE	FORM	SITE	USE
B-195-M	³ H ¹⁴ C	³ H – Thymidine ¹⁴ C – Acetate ¹⁴ C – Methylamine	McMurdo Station and vicinity	Microbial diversity and function in the permanently ice-covered lakes of the McMurdo Dry Valleys
B-422-M	¹⁴ C	¹¹⁴ C – Toluene	McMurdo Station and vicinity	The Role of Natural Legacy on Ecosystem Function and Structure in a Polar Desert
A-143-M	¹³⁷ Cs ²⁴¹ Am	¹³⁷ Cs – Sealed source ²⁴¹ Am – Sealed source	McMurdo Station and vicinity	Advanced Thin Ionization Calorimeter (ATIC)
B-134-M	³⁵ S ¹⁴ C	³⁵ S – Amino acid methianine/cysteine ¹⁴ C – Methylated proteins	McMurdo Station and vicinity	Towards an understanding of protein homeostasis in cold- adapted Antarctic fish
B-006-M	¹⁴ C ³ H	¹⁴ C – Alanine ¹⁴ C – Amino acid mix ¹⁴ C – ATP ¹⁴ C – Leucine ¹⁴ C – Sodium bicarbonate ³ H – Lysine ³ H – Uridine ³ H – UTP	McMurdo Station and vicinity	Energetics of protein metabolism during development of Antarctic echinoderms

PROJECT	NUCLIDE	FORM	SITE	USE
B-211-M	¹⁴ C ³ H	¹⁴ C – Sodium bicarbonate ³ H – Leucine	McMurdo Station and vicinity	NASA-ASTEP: Subsurface ice and brine sampling; Life detection and characterization in the McMurdo Dry Valleys using an ultrasonic gopher
B-230-M	¹⁴ C	¹⁴ C – Sodium bicarbonate	McMurdo Station and vicinity	Project Title: Environmental and Ecological Regulation of Differences and Interactions between Solitary and Colonial Forms of Phaeocystis Antarctica
B-300-M	¹⁴ C ³ H	¹⁴ C – Alanine ¹⁴ C – Sodium bicarbonate ³ H – Thymidine	McMurdo Station and vicinity	Biogeochemistry of dissolved organic material in Pony Lake, Ross Island
B-310-M	³ H ¹⁴ C	³ H – Thymidine ¹⁴ C – Leucine	McMurdo Station and vicinity	What limits denitrification and bacterial growth in Lake Bonney, Taylor Valley?
O-176-M	²⁴¹ Am	²⁴¹ Am – Sealed source	McMurdo Station and vicinity	Antarctic Troposphere Chemistry Investigation (ANTCI)