

Radionuclide Analysis Facility
Gamma Analysis Report
 Issued by Meka E. Francis

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 Work Request #: 15-344
 Submitted by: M. Francis on 11/25/2015
 Workbook: HPGe #2-11, page 25

LArTF Sieves (MicroBooNE Cooldown)

The ESH&Q Section/RP Group submitted 1 molecular sieve sample on Work Request# 15-344 for analysis of naturally produced radionuclides. The samples were counted on detector HPGe#2 for 24 hours on the dates listed below. Averaged results for blank sample 151112MF03 were subtracted from the averaged sample results to obtain the activities quoted.

Sample ID#	Sample Time	Location	Container	Count Info	Mass	Count Dates	Radionuclide	Activity (pCi/g)	Activity (Bq/kg)
151125RK01	10:00	Molecular Sieves from Microboone Cooldown	250 mL Bottle	86,400 sec @ 4cm	173.221 g	12/3/15 @ 14:08 12/22/15 @ 12:56	Thorium Series		
							Ac-228	0.21 ± 0.05	8 ± 2
							Pb-212	0.12 ± 0.03	4 ± 1
							Tl-208	0.05 ± 0.02	2.0 ± 0.6
							Uranium Series		
							Ra-226	0.6 ± 0.2	21 ± 7
							Pb-214	0.20 ± 0.04	7 ± 1
Bi-214	0.26 ± 0.05	10 ± 2							
							K-40	2.9 ± 0.8	110 ± 30

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