

ACTIVITY CONTROL SYSTEM -- EFFECTIVE 10/13/03

ALL AMOUNTS IN THE TABLES ARE DECAY-CORRECTED CUMULATIVE INVENTORY

BASIC AUTHORIZATION

nuclide	default ceiling amount (mCi)	max HP ceiling amount (mCi)
H-3	25	45
C-14	12	24
P-32	9	18
P-33	15	30
S-35	15	30
Ca-45	12	24
Cr-51	15	30
Fe-55	15	30
I-125 (bound)	3	6

ADVANCED AUTHORIZATION*

CEILING AMOUNTS ARE ZERO UNTIL THE AREA HP APPROVES THE USE OF ANY GIVEN NUCLIDE BY AN AUTHORIZED USER

nuclide	default ceiling amount (mCi)	max HP ceiling amount (mCi)	nuclide	default ceiling amount (mCi)	max HP ceiling amount (mCi)
Na-24	3	6	Nb-95	12	24
Mg-28	1.5	3	Mo-99	12	24
Cl-36	12	24	Tc-99	13.5	27
K-42	13.5	27	Tc-99m	19.5	39
Mn-54	9	18	Ru-103	10.5	21
Co-57	15	30	In-111	10.5	21
Fe-59	6	12	I-123	13.5	27
Co-60	1.5	3	I-129	0	0
Ni-63	15	30	I-131	1.5	3
Cu-67	13.5	27	Ce-141	12	24
Ga-67	13.5	27	Gd-153	12	24
As-73	15	30	Sm-153	12	24
Se-75	3	6	Lu-177	12	24
Sr-85	10.5	21	Re-186	12	24
Rb-86	9	18	Au-198	9	18
Y-88	1.5	3	Hg-203	7.5	15
Y-90	9	18	Pb-203	4.5	9
Sr-90	3	6	Bi-205	10.5	21
			Bi-206	0	0

* Each isotope in this list is individually approved for an AU who wishes to order it. They would be assigned the default ceiling for that nuclide upon HP approval.

- A protocol is **REQUIRED** to possess more than the max HP ceiling amount
- The following positron-emitting isotopes require protocols for any amount ordered:

C-11, N-13, O-15, F-18, Na-22, Cu-64, Zn-65, Ga-68, Br-76, Rb-82, Y-86, Zr-89, Tc-94m, I-124

- All unbound iodines require a protocol or use of the DRS Hot Lab Facility
- All unprocessed cyclotron target manipulations require a protocol
- All alpha-emitting radionuclides require a protocol!
- To order a nuclide not on either list, contact your Area Health Physicist (496-5774)