ACTIVITY CONTROL SYSTEM -- REVISED 10/4/21

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	50
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*	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)
C-11	6	12
F-18	6	12
Na-22	1.5	3
Na-24	2.5	5
Mg-28	1.5	3
Cl-36	12	24
K-42	8	16
Mn-51	8	16
Mn-52	1.5	3
Mn-54	9	18
Co-57	15	30
Fe-59	6	12
Co-60	1.5	3
Ni-63	15	30
Cu-64	15	30
Zn-65	1.5	3
Cu-67	13.5	27
Ga-67	13.5	27
Ge-68/Ga-68	7.5	15
As-73	15	30
Se-75	3	6
Br-76*	3	6
Rb-82	3	6
Sr-85	10.5	21
Rb-86	9	18
Y-86	1.5	3
Y-88	1.5	3

nuclide	default ceiling amount (mCi)	max HP ceiling amount (mCi)
Zr-89	1.5	3
Nb-90	1.5	3
Y-90	9	18
Sr-90	3	6
Tc-94m	4.5	9
Nb-95	10.5	21
Mo-99	12	24
Tc-99	13.5	27
Tc-99m	19.5	39
Ru-103	10.5	21
In-111	9	18
I-123*	13.5	27
I-124*	1.5	3
I-129*	0	0
I-131*	1.5	3
Ce/La-134	7.5	15
Ce-141	12	24
Gd-153	12	24
Sm-153	12	24
Lu-177	12	24
Re-186	12	24
Ir-192	1.5	3
Au-198	9	18
Hg-203	7.5	15
Pb-203	4.5	9
Bi-205	5.5	11
Bi-206	0	0

*** Bound forms only**

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

- **A protocol is REQUIRED to possess more than the max HP ceiling amount**
- **All unbound iodines or other volatile nuclides 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 (301-496-5774)**

Last modified: 10/4/21