^{99m}Tc

STAR
STRATEGY FOR ALLIED RADIOECOLOGY

Commonly used or illustrative parameters

Generic parameters	Value
Radioactive half life [1]	6.01 x 10^{0} Hours
Origin [1]	Separation from ^{99}Mo
Principal decay mode [1]	Gamma
Specific activity [2]	1.92 x 10^{17} Bq g^{-1}
Freshwater Kd [3]	5 x 10^{0} L kg^{-1}
Marine Kd [4]	1 x 10^{2} L kg^{-1}

Parameters useful for human assessments	Value
F_v Pasture grass [3]	7.6 x 10^{1}
CR Freshwater fish	No value available
CR Marine fish [4]	1.0 x 10^{1} L kg^{-1}
F_f Cow meat	No value available
F_m Cow milk	No value available
Human fractional absorption (f1) [5]	0.5
Inhalation dose coefficient [6]	2.0 x 10^{-11} Sv Bq^{-1}
Ingestion dose coefficient [6]	2.2 x 10^{-11} Sv Bq^{-1}
Biological half life for Human (adult) [7]	1.6 days (0.75), 3.7days (0.2), 22.days (0.05)
Biological half life for Cow milk	No value available
EU Food intervention limit- Dairy [8]	10 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Baby food [8]	4 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Liquid [8]	10 000 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Other food [8]	12 500 Bq L^{-1} or Bq kg^{-1}
EU Food intervention limit- Minor food [8]	125 000 Bq L^{-1} or Bq kg^{-1}

^{99m}Tc Nuclear data

^{99m}Tc

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Commonly used or illustrative parameters

Parameters useful for wildlife assessments	Value
Terrestrial EMCL— Soil	n/a
Freshwater EMCL—Water	n/a
Freshwater EMCL— Sediment	n/a
Marine EMCL — Water	n/a
Marine EMCL — Sediment	n/a
CR Terrestrial mammal (rat) [9]	3.9×10^{-1}
CR Freshwater fish [9]	9.9×10^{1}
CR Freshwater mollusc [9]	9.9×10^{1}
CR Marine fish [9]	8.0×10^{1}
CR Marine mollusc [9]	8.2×10^{3}
Internal DCC Terrestrial mammal (rat) on soil [9]	1.93×10^{-5} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Terrestrial mammal (rat) in soil [9]	4.31×10^{-5} µGy h^{-1}/Bq kg^{-1} soil
External DCC Terrestrial mammal (rat) on soil [9]	2.06×10^{-5} µGy h^{-1}/Bq kg^{-1} soil
Internal DCC Marine fish (benthic) [9]	1.98×10^{-5} µGy h^{-1}/Bq kg^{-1} whole organism
External DCC Marine fish (benthic) in water [9]	6.53×10^{-5}µGy h^{-1}/Bq L^{-1} water
External DCC Marine fish (benthic) at sediment interface [9]	3.27×10^{-5}µGy h^{-1}/Bq L^{-1} water
Internal DCC Freshwater fish (pelagic) [9]	2.27×10^{-5}µGy h^{-1} / Bq kg^{-1} whole organism
External DCC Freshwater fish in water [9]	6.24×10^{-5}µGy h^{-1}/Bq L^{-1} water

All terms used in these tables are described and discussed in underlying documents accessed via the hyperlinks provided

Sources of data reference list
Data compiled: September 2012
Data updated : May 2015