TECHNICAL DATA SHEET

^{3}H

Caution: For Laboratory Use. A product for research purposes only.

NICOTINE, L-(-)-[N-METHYL-^{3}H]-

Product Number: NET827

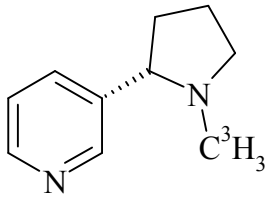
LOT SPECIFIC INFORMATION

Lot Number: 2046083

Specific Activity: 79.8 Ci/mmol

2953 GBq/mmol

Production Date: 16-Oct-2015



M.W. 162
$C_{10}H_{14}N_2$

PACKAGING: 1.0 mCi/ml (37 MBq/ml) in ethanol, under argon in a vial which protects the contents from UV light. Shipped in dry ice.

STABILITY AND STORAGE RECOMMENDATIONS: The stability of nicotine, L-(-)-[N-methyl-^{3}H]- is currently being evaluated. Initial studies indicate that when nicotine, L-(-)-[N-methyl-^{3}H]- is stored at -20°C in its original solvent and at its original concentration, the rate of decomposition is initially 3% in 6 months. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: 60-87 Ci/mmol (2220-3219 GBq/mmol)

RADIOCHEMICAL PURITY: This product was initially found to be greater than 97% when determined by the following methods. The rate of decomposition can accelerate. Purity should be checked prior to use:

High pressure liquid chromatography on a Polyhydroxyethyl A column using the following mobile phase:
1% triethylammonium acetate (pH 4.0) : acetonitrile, (40:60).

Thin layer chromatography on silica gel using the following solvent systems:
a. chloroform : methanol, (9:1).
b. chloroform : methanol : ammonium hydroxide, (9:1:0.1).

QUALITY CONTROL: The radiochemical purity of nicotine, L-(-)-[N-methyl-^{3}H]- is checked at appropriate intervals using the first listed chromatography method.

HAZARD INFORMATION: WARNING: This product contains a chemical known to the state of California to cause cancer.

PerkinElmer, Inc.
549 Albany Street
Boston, MA 02118 USA
P: (800) 762-4000 or (+1) 203-925-4602
www.perkinelmer.com/nenradiochemicals
For a complete listing of our global offices, visit www.perkinelmer.com/ContactUs

PerkinElmer®