TECHNICAL DATA SHEET

^{3}H

Research Use Only. Not for use in diagnostic procedures.

CHOLINE CHLORIDE, [METHYL-^{3}H]-

Product Number: NET109

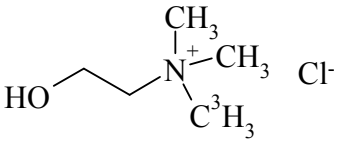
LOT SPECIFIC INFORMATION

Lot Number: 2619662

Specific Activity: 72.6 Ci/mmol

2686 GBq/mmol

Production Date: 04-Oct-2019



M.W. 139.6
$C_5H_{14}ClNO$

PACKAGING: 1 mCi/ml (37 MBq/ml) in ethanol, in a silanized vial. Shipped on dry ice.

STABILITY AND STORAGE RECOMMENDATIONS: When choline chloride, [methyl-^{3}H]- is stored at -20°C in its original solvent and at its original concentration, the rate of decomposition is initially less than 0.5% per month from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: 60-90 Ci/mmol (2220-3330 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. It is advisable to check purity prior to use:

Thin layer chromatography on Avicel or paper chromatography on Whatman No. 1 using the following solvent systems:
a. n-butanol : acetic acid : water, (25:4:10).
b. n-butanol : ethanol : acetic acid : water, (8:2:1:3).

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

SPECIAL INFORMATION: Choline chloride, [methyl-^{3}H]- has been found to absorb to glass walls. For optimal assay conditions, use silanized glassware and pipets and add cold carrier prior to liquid scintillation counting.

REFERENCE: L. T. Potter and W. Murphy, *Biochem. Pharmacol.* 16, 1386-1388 (1967).

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

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