TECHNICAL DATA SHEET

^{14}C

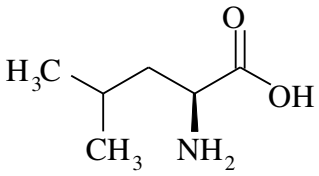
Research Use Only. Not for use in diagnostic procedures.

LEUCINE L-[^{14}C(U)]

Product Number: NEC279E

LOT SPECIFIC INFORMATION

Lot Number:	2615453
Specific Activity:	328 mCi/mmol
	12136 MBq/mmol
Production Date:	4-Nov-2019



M.W. 131.2
$C_6H_{13}NO_2$
CAS 61-90-5

PACKAGING: 0.1 mCi/ml (3.7 MBq/ml) in ethanol : water (2:98), steri-packaged.

STABILITY AND STORAGE: When leucine L-[^{14}C(U)] is stored at 5°C in its original solvent and at its original concentration, the rate of decomposition is initially 1% for 6 months from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: >250 mCi/mmol (> 9250 MBq/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:

High pressure liquid chromatography on a Zorbax SCX column using the following mobile phase:
25mM potassium phosphate, pH 3.0.

Paper chromatography using the following solvent system:
n-butanol : acetic acid : water, (25:4:10).

OPTICAL PURITY: The optical purity of this product was determined to be greater than 97% L-leucine.

QUALITY CONTROL: The radiochemical purity of leucine, L-[^{14}C(U)] 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.

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