

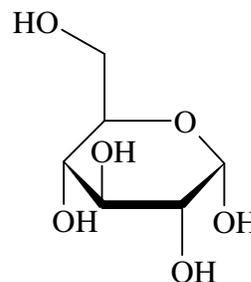
Caution: For Laboratory Use. A product for research purposes only.

GLUCOSE, D-[¹⁴C(U)]-

Product Number: NEC042X

LOT SPECIFIC INFORMATION

Lot Number:	<u>1884160</u>
Specific Activity:	<u>269</u> mCi/mmol
	<u>9953</u> MBq/mmol
Production Date:	<u>16-Sep-2014</u>



M.W. 180.16
C₆H₁₂O₆

PACKAGING: 0.1 mCi/ml (3.7 MBq/ml) in ethanol : water solution, 9:1.

STABILITY AND STORAGE: When NEC-042X glucose, D-[¹⁴C(U)]- is stored at 5°C in its original solvent and at its original concentration, the rate of decomposition is initially 1% for the first 12 months from date of purification. Stability is nonlinear and not correlated to isotope half-life. Lot to lot variation may occur.

SPECIFIC ACTIVITY RANGE: 250-360 mCi/mmol (9250-13320 MBq/mmol)

RADIOCHEMICAL PURITY: This product was initially found to be greater than 97% when determined by the following method. It is advisable to check purity prior to use.

Paper chromatography using the following solvent systems:

- n-butanol : ethanol : water, (50:32:18).
- n-butanol : acetic acid : water, (4:1:5).
- n-butanol : pyridine : water, (6:4:3).

QUALITY CONTROL: The radiochemical purity of glucose, D-[¹⁴C(U)]- is checked at appropriate intervals using the first listed chromatography method.

SPECIAL INFORMATION: The relative distribution of carbon-14 in glucose, D-[¹⁴C(U)]- was determined by Hiatt (1) with the results (position, % relative to C-4): C-1 (111), C-2 (97), C-3 (114), C-4 (100), C-5 (89) and C-6 (80).

REFERENCES:

- H.H. Hiatt, *J. Clinical Investigation*, 37, 1453 (1953).

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

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