TECHNICAL DATA SHEET

^{14}C

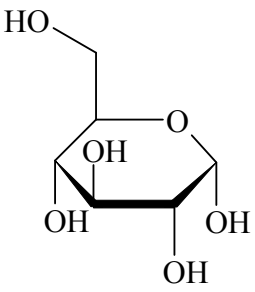
Research Use Only. Not for use in diagnostic procedures.

GLUCOSE, D-[^{14}C(U)]-

Product Number: NEC042B

LOT SPECIFIC INFORMATION

Lot Number:	2475482
Specific Activity:	275 mCi/mmol
	10175 MBq/mmol
Production Date:	14-Jan-2019



M.W. 180.16
$C_6H_{12}O_6$

PACKAGING: 1.0 mCi/ml (37 MBq/ml) in ethanol : water solution, 9:1.

STABILITY AND STORAGE: When glucose, D-[^{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 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. The rate of decomposition can accelerate. It is advisable to check purity prior to use:

High pressure liquid chromatography on an Aminex HPX-87C column at 80°C using the following mobile phase:
Water

(optional) Paper chromatography using the following solvent system:
n-butanol : ethanol : water, (50:32:18)

QUALITY CONTROL: The radiochemical purity of glucose, D-[^{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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