PACKAGING: 0.1 mCi/ml (3.7 MBq/ml) in ethanol : water solution (7:3). Shipped in dry ice.

STABILITY AND STORAGE RECOMMENDATIONS: When uridine diphosphate N-acetyl-D-glucosamine, [glucosamine-6-3H(N)]- is stored at -20°C in its original solvent and at its original concentration, the rate of decomposition is initially 1% for 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: 20-45 Ci/mmol (740-1665 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:

High pressure liquid chromatography on a Zorbax SAX column using the following mobile phase:
0.2M ammonium phosphate, pH 3.5

Paper chromatography on Whatman No. 1 using the following solvent system:
ethanol : ammonium acetate (1.0M) pH 3.8, (5:2) (1).

Levels of radiochemical impurities found co-chromatographing with authentic standards were as follows:
Less than 0.5% N-acetyl glucosamine-1-PO₄. Less than 0.5% N-acetyl glucosamine

This lot was initially found to contain less than 0.2% N-acetyl mannosamine when determined by chromatography of the enzymatic hydrolysate by one of the following methods:

1. HPLC on a carbohydrate analysis column or equivalent.
2. Paper chromatography on Whatman 3MM impregnated with 2% sodium tetraborate using:
n-butanol : pyridine : water (6:4:3).
CHEMICAL PURITY: Determined by ultraviolet spectrophotometry at pH 7.0. Values observed fall into the published range of absorbency ratios for uridine-5'-diphosphate. (2)

QUALITY CONTROL: The radiochemical purity of uridine diphosphate N-acetyl-D-glucosamine [glucosamine-6-\(^3\)H(N)]- is checked at appropriate intervals using the first listed chromatography method.

REFERENCES:


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