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

**URIDINE DIPHOSPHATE N-ACETYL-D-GLUCOSAMINE, [GLUCOSAMINE-6-^3H(N)]-**

Product Number: NET434

**LOT SPECIFIC INFORMATION**

<table>
<thead>
<tr>
<th>Lot Number:</th>
<th>1739080</th>
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<tbody>
<tr>
<td>Specific Activity:</td>
<td>37 Ci/mmol</td>
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<tr>
<td></td>
<td>1369 GBq/mmol</td>
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<tr>
<td>Production Date:</td>
<td>11-Apr-2013</td>
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**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.