LOT SPECIFIC INFORMATION

<table>
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<tr>
<th>Lot Number: 2172992</th>
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<td>Specific Activity: 262 mCi/mmol</td>
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<tr>
<td>Production Date: 6-July-2016</td>
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<td>Production Date: 262 9694 6- July-2016</td>
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PACKAGING: 0.02 mCi/ml (740 KBq/ml) in ethanol : water (7:3), shipped in dry ice.

STABILITY AND STORAGE RECOMMENDATIONS: When guanosine diphosphate mannose, [mannose-\textsuperscript{14}C(U)]- 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: > 200 mCi/mmol (>7400 MBq/mmol)

RADIOCHEMICAL PURITY: This product 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 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 7.5, (7:3).

Levels of radiochemical impurities found co-chromatographing with authentic standard were as follows:
- Less than 0.5% hexose and less than 0.5% hexose phosphate.

An acid hydrolysate of this product was initially found to be greater than 97% mannose when determined by the following method:
- High pressure liquid chromatography on an Aminex HPX-87C column, heated to 85%, using water as the mobile phase.

CHEMICAL PURITY: Determined by ultraviolet spectrophotometry at pH 7.0. Values observed fall into the published range for absorbency ratios for quanosine-5'-diphosphate. (1)

QUALITY CONTROL: The radiochemical purity of guanosine diphosphate mannose, [mannose-\textsuperscript{14}C(U)]- is checked at appropriate intervals using first listed system.
SPECIAL INFORMATION:

Removal of solvent:
An aliquot or the entire sample can be taken to dryness by directing a gentle stream of inert gas (nitrogen) over the surface of the solution. The temperature of the solution should not be allowed to exceed 20°C during the drying process, and the compound should not be permitted to remain in the solid state any longer than necessary. For additional information regarding stability and storage, see the discussion above.

REFERENCE:

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