

# **CERTIFICATE OF ANALYSIS**

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### 1. Identification

**CAS Number:** 202114-47-4

Catalogue Number:

TRC-R417502

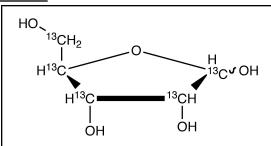
**Product:** 

D-Ribose-13C,

**Synonyms:** 

Ribose-<sup>13</sup>C<sub>5</sub>; D-(-)-Ribose-<sup>13</sup>C<sub>5</sub>; D-[UL-<sup>13</sup>C<sub>5</sub>]-Ribose;

#### Structure:



Molecular Formula:

<sup>13</sup>C<sub>5</sub>H<sub>10</sub>O<sub>5</sub>

**Molecular Weight:** 

155.09

**Source of Product:** 

N/A

## 2. Analytical Information

**Lot Number:** 

3-JSH-150-1

**Melting Point:** 

90 - 93°C

Appearance of Product:

White Solid

**Method for Determining Identity:** 

<sup>1</sup>H NMR (D<sub>2</sub>O), <sup>13</sup>C NMR (D<sub>2</sub>O), and MS

**Purity:** 

Chemical Purity: 98% Isotopic Purity: 99.1% **Atmosphere:** 

Air

Solubility

Water (Slightly)

**Stability** 

Not Determined

**Long Term Storage Condition:** 

4°C

**Shipping Condition** 

This Product Is Stable To Be Shipped At Room Temperature

#### **Additional Information:**

TLC Conditions: C<sub>18</sub>; Acetonitrile: Water = 9:1; Visualized with AMCS and KMnO<sub>4</sub>; Single Spot, Rf = 0.50.

<sup>1</sup>H NMR, <sup>13</sup>C NMR, and MS conform to structure.

Elemental Analysis: (Found) %C: 38.92, %H: 6.77; (Calculated) %C: 38.69, %H: 6.50

Normalized Intensity:  ${}^{13}C_0 = 0.01\%$ ,  ${}^{13}C_1 = 0.03\%$ ,  ${}^{13}C_2 = 0.13\%$ ,  ${}^{13}C_3 = 0.06\%$ ,  ${}^{13}C_4 = 3.61\%$ ,  ${}^{13}C_5 = 96.16\%$ 

Specific Potation: -17.5° (c = 0.2 Mater)

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of ± 2%. Isotopic purity is based on mass distribution observed.

The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

Philip Chan, Head of Quality Assurance

**QC Test Date** May 31, 2018

**Retest Date** May 29, 2022