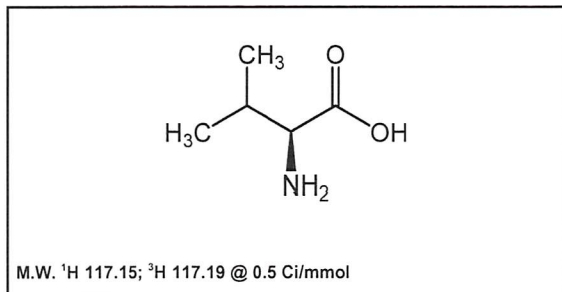


Certificate of Analysis

MT-1654

L-Valine, [³H]-



Lot #: 373-187-0005-A-20130822-TNG

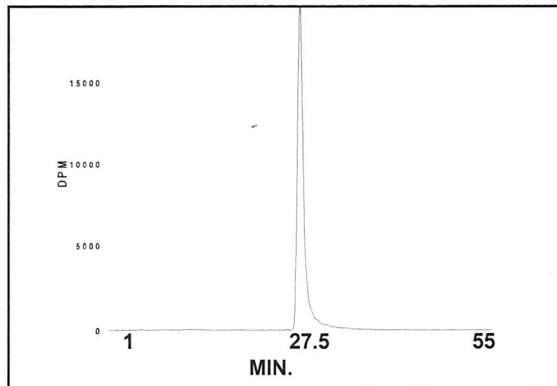
Specific Activity: 0.5 Ci/mmol

Concentration: 1.0 mCi/ml; 234.37 µg/ml

Packaged in: Ethanol : water (2 : 98) solution

Date of Analysis: December 6, 2018

Radiochemical Purity: 99.1%



HPLC ANALYSIS LOT 373-187-0005-A-20130822-TNG
File Name: int63847 Date and Time: 12/6/2018 2:42:21 PM
Unit 6 Radio

Peak #	Area %	Time	Area
1	0.07	7.89670	83.92811
2	0.32	11.68330	417.70834
3	99.09	27.54000	127652.87999
4	0.09	29.85670	112.88300
5	0.03	31.09330	42.75929
6	0.07	31.39330	96.19129
7	0.04	32.51330	50.14551
8	0.02	32.85670	24.91844
9	0.06	33.96000	73.45290
10	0.10	34.10330	128.92072
11	0.11	35.69330	147.84384
Totals	100.00		128831.63143

Stability and Storage Recommendation: The rate of decomposition is approximately 0.1-0.5%/month for the first six months after purification when stored at 0-5°C.

Caution: Not For Use In Humans Or Clinical Diagnosis. This product is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not intended for use in humans. Responsibility for its use in humans, as a diagnostic reagent, and compliance with federal laws rests solely with the purchaser.