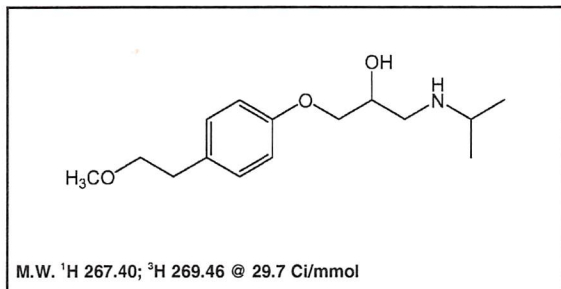


Certificate of Analysis

MT-1639

Metoprolol, [³H]-



Lot #: 375-061-0297-A-20140513-TNG

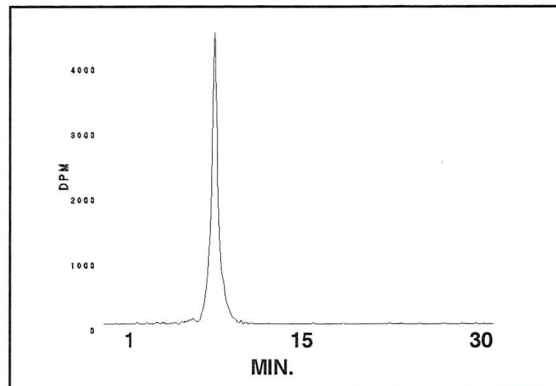
Specific Activity: 29.7 Ci/mmol

Concentration: 1.0 mCi/ml; 9.07 µg/ml

Packaged in: Ethanol : water (1 : 1) solution

Date of Analysis: February 10, 2020

***Radiochemical Purity:** 97%



HPLC ANALYSIS LOT 375-061-0297-A-20140513-TNG
File Name: int26633 Date and Time: 2/10/2020 10:38:58 A
Unit 2 Radio

| Peak # | Area % | Time | Area |
|----------|--------------|----------------|--------------------|
| 1 | 2.18 | 6.93200 | 409.00325 |
| <u>2</u> | <u>97.03</u> | <u>8.56400</u> | <u>18200.28511</u> |
| 3 | 0.40 | 9.18800 | 74.48146 |
| 4 | 0.19 | 9.94400 | 35.58119 |
| 5 | 0.21 | 10.60800 | 38.96294 |
| Totals | 100.00 | | 18758.31395 |

Stability and Storage Recommendation: Store at -20°C.

***Quality Level Disclaimer:** Results were obtained utilizing non-qualified instrumentation, methods that have not been validated or transferred, and analyses not performed according to a formal, documented, analytical protocol.

When handling this radiochemical, please refer to the safe handling of isotopes document provided with your shipment. If the document is misplaced, a link to a copy is available at www.moravek.com/customer-service.

In addition to the hazard connected with radiation, this compound also has chemical safety characteristics that need to be taken into account before it can be safely worked with. For assistance with designing a safe working environment and procedures for this and all chemicals at your workplace, please contact OSHA at 800-321-6742(OSHA) or https://www.osha.gov/html/Feed_Back.html.

Caution: This material was manufactured under research grade conditions and is intended for investigational or manufacturing use only. It is pharmaceutically unrefined and is not suitable for use in humans or clinical diagnosis. Responsibility for its use and compliance with federal law rests solely with the purchaser. If the compound and/or any associated information/documentation derived from its use could be used for any potential future filings, research grade material is not recommended.