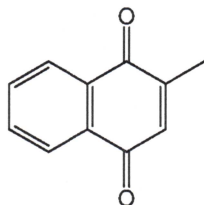


Certificate of Analysis

MT-664

Vitamin K₃, [³H]-



M.W. ¹H 172.18; ³H X @ X Ci/mmol

Lot #: 945-178-0026-A-20100920-DG

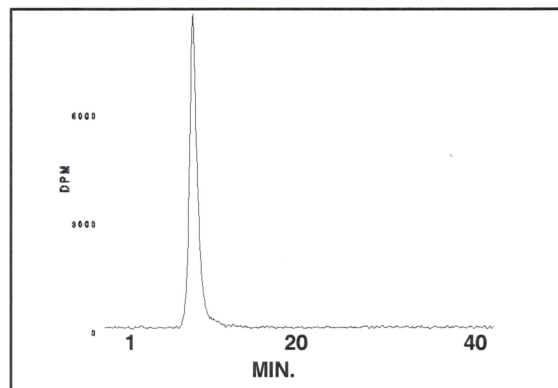
Specific Activity: 2.6 Ci/mmol

Concentration: 1.0 mCi/ml; 66.29 µg/ml

Packaged in: Ethanol solution

Date of Analysis: October 30, 2019

Radiochemical Purity: 99%



HPLC ANALYSIS LOT 945-178-0026-A-20100920-DG

File Name: Intj9339 Date and Time: 10/29/2019 11:02:30

Unit 19 - Radio

Peak #	Area %	Time	Area
1	0.02	7.94670	8.25092
2	99.35	9.08500	48699.95670
3	0.10	10.98500	47.82295
4	0.30	11.23500	149.37782
5	0.05	12.79830	25.53445
6	0.18	13.21000	88.33408
Totals	100.00		49019.27692

Stability and Storage Recommendation: The rate of decomposition is approximately 1%/month for the first six months after purification when stored 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.