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CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

Product Name: Vitamin K1 Impurity 24

Identification:

Chemical Name: (7R,11R)-3-chloro-3,7,11,15-tetramethylhexadec-1-ene

| Synonyms | : NA | |
|-------------------|--------------|--|
| CAS Number | : NA | |
| CAT Number | : CP-P113033 | |
| Molecular Formula | : C20H39Cl | |
| Molecular Weight | : 314.98 | |
| | | |

Analytical Information:

| Sr. No. | Test | Result |
|---------|----------------|--------------------------|
| 1) | Description | Solid |
| 2) | Solubility | Soluble in Methanol/DMSO |
| 3) | MASS By LCMS | Confirm to structure |
| 4) | Purity By HPLC | >95% |
| 5) | H1NMR | Confirm to structure |



Prepared and Reviewed By

Ms Priyanka Salunkhe (Manager QC Analytical) Approved By

Ms Rohini Gagare (QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.