

## Certificate of Analysis

|                                              |                                                                                                                                         |                                |              |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|--------------|
| Product Name                                 | S-Geranylgeraniol-L-Cysteine                                                                                                            | Batch No.                      | M23X02270    |
| CAS No.                                      | 131404-69-8                                                                                                                             | MFG. Date                      | Feb 27, 2023 |
| CAT No.                                      | M118640                                                                                                                                 | Retest Date                    | Feb, 2025    |
| Items                                        | Specification                                                                                                                           | Results                        |              |
| Appearance                                   | White solid which contains no foreign matter                                                                                            | Pass                           |              |
| TLC<br>(80:20:2 Chloroform: Methanol: Water) | >99% Purity<br>Ninhydrin: positive<br>Iodine: one major spot<br>Phosphorus: negative<br>Charring: positive<br>Water dip: one major spot | All Pass                       |              |
| Proton NMR                                   | NMR spectrum consistent with structure                                                                                                  | Consistent with structure      |              |
| Mass Spectroscopy                            | [M+H] <sup>+</sup> = 394.63 ± 1 amu                                                                                                     | [M+H] <sup>+</sup> = 394.3 amu |              |
| Conclusion                                   | Corresponds.                                                                                                                            |                                |              |
| Storage Condition                            | -20°C.                                                                                                                                  |                                |              |

QC:

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QA:

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