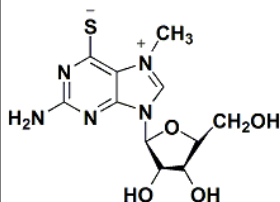


## Certificate of Analysis

(C of A)

|                                 |  |                                                                                     |          |                                                 |                                                                 |
|---------------------------------|--|-------------------------------------------------------------------------------------|----------|-------------------------------------------------|-----------------------------------------------------------------|
| Name:                           |  | <b>MESG</b><br>7-Methyl-6-thioguanosine                                             |          |                                                 |                                                                 |
| Catalog Number:                 |  | 6764                                                                                | Lot:     |                                                 | 51409                                                           |
| CAS Number:                     |  | 55727-10-1                                                                          | Formula: |                                                 | C <sub>11</sub> H <sub>15</sub> N <sub>5</sub> O <sub>4</sub> S |
| Molecular Weight:               |  | 313.33 (g/mol)                                                                      |          |                                                 |                                                                 |
|                                 |  |                                                                                     |          |                                                 |                                                                 |
|                                 |  | <b>Observed</b>                                                                     |          | <b>Standard</b>                                 |                                                                 |
| HPLC Purity:                    |  | 93% at 254 nm                                                                       |          | ≥ 85% at 254 nm                                 |                                                                 |
| <b>Absorption (Buffer pH 7)</b> |  |                                                                                     |          |                                                 |                                                                 |
| Wavelength (λ <sub>max</sub> ): |  | 332 nm                                                                              |          | 333 ± 3 nm                                      |                                                                 |
| Extinction:                     |  | 16,600 cm <sup>-1</sup> M <sup>-1</sup>                                             |          | 17,000 ± 1,500 cm <sup>-1</sup> M <sup>-1</sup> |                                                                 |
| TLC Purity:                     |  | > 95%                                                                               |          | ≥ 90%                                           |                                                                 |
| TLC System:                     |  | 80:20 Acetonitrile / Water                                                          |          |                                                 |                                                                 |
| Storage:                        |  | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L) |          |                                                 |                                                                 |
| Production Lot:                 |  | 11347                                                                               | Release: | 03-Sep-2019                                     | Expiration: 03-Jul-2019                                         |
| Structure:                      |  |  |          |                                                 |                                                                 |

This data reflects the accuracy of the analysis of the subject lot  
 For research use only. Not for human use. No animal source.  
 This material is chemically synthesized and manufactured in the USA

**Approved by:** Dianna M Wineinger  
 Analytical Services Manager

**Date:** 03-Sep-2019

**Signature:** 