

# Certificate of Analysis

|                                                                                                     |                                                  |                                |                                                                |
|-----------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|----------------------------------------------------------------|
| Product Name                                                                                        | EMA (Ethidium monoazide bromide)                 |                                |                                                                |
| Cat.No.                                                                                             | E4035                                            | Storage Conditions             | Store at 4℃ away from light                                    |
| Lot.No.                                                                                             | 220225X01-04                                     | Expiration Date                | 24-02-2027                                                     |
| Molecular Formula                                                                                   | C <sub>21</sub> H <sub>18</sub> BrN <sub>5</sub> | Molecular Weight               | 420.3                                                          |
| CAS Number                                                                                          | 58880-05-0                                       | Excitation Emission            | Ex (pH3) = 458 nm<br>Ex/Em= 510/600 nm<br>(bound nucleic acid) |
| Quality Control                                                                                     |                                                  |                                |                                                                |
| Items                                                                                               | Specification                                    | Result                         |                                                                |
| Packaging appearance                                                                                | Intact and undamaged                             | Intact and undamaged           |                                                                |
| Appearance                                                                                          | Orange solid                                     | Orange solid                   |                                                                |
| Weight/volume                                                                                       | 5-5.3mg                                          | 5mg                            |                                                                |
| molar extinction coefficient                                                                        | 5400±500                                         | 5300                           |                                                                |
| Purity                                                                                              | HPLC: ≥95% at 254 nm<br>≥95% at 481 nm           | 96% at 254 nm<br>96% at 481 nm |                                                                |
| Appendix                                                                                            |                                                  |                                |                                                                |
| This Product has been tested and the components have been found to conform to UE quality standards. |                                                  |                                |                                                                |
| Conclusion                                                                                          | Up to standard                                   | Report Date                    | 04-04-2023                                                     |
| QC                                                                                                  | tian qin zheng                                   | QA                             | Qin Hua-Yu                                                     |

