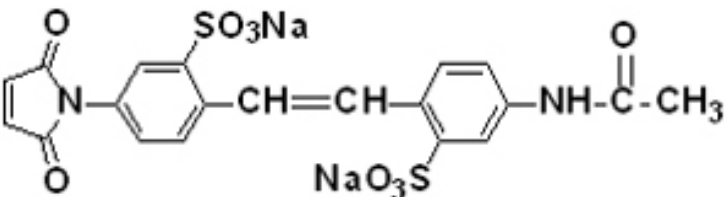


| Certificate of Analysis<br>(C of A) |                                                                                      |          |                                                 |                                                                                              |             |
|-------------------------------------|--------------------------------------------------------------------------------------|----------|-------------------------------------------------|----------------------------------------------------------------------------------------------|-------------|
| Name:                               | <b>AMS</b><br>4-Acetamido-4'-maleimidylstilbene-2,2'-disulfonic acid, disodium salt  |          |                                                 |                                                                                              |             |
| Catalog Number:                     | 6508                                                                                 |          | Lot:                                            | 52176                                                                                        |             |
| CAS Number:                         | 175171-43-4                                                                          |          | Formula:                                        | C <sub>20</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>9</sub> S <sub>2</sub> |             |
| Molecular Weight:                   | 536.44 (g/mol)                                                                       |          |                                                 |                                                                                              |             |
|                                     |                                                                                      |          |                                                 |                                                                                              |             |
|                                     | <b>Observed</b>                                                                      |          | <b>Standard</b>                                 |                                                                                              |             |
| HPLC Purity:                        | 89% at 254 nm                                                                        |          | ≥ 65% at 254 nm                                 |                                                                                              |             |
| <b>Absorption (Buffer pH8)</b>      |                                                                                      |          |                                                 |                                                                                              |             |
| Wavelength (λ <sub>max</sub> ):     | 322 nm                                                                               |          | 323 ± 3 nm                                      |                                                                                              |             |
| Extinction:                         | 29,200 cm <sup>-1</sup> M <sup>-1</sup>                                              |          | 31,500 ± 4,500 cm <sup>-1</sup> M <sup>-1</sup> |                                                                                              |             |
| TLC Purity:                         | > 98%                                                                                |          | ≥ 65%                                           |                                                                                              |             |
| TLC System:                         | 45:45:10 Chloroform / Methanol / Acetic acid                                         |          |                                                 |                                                                                              |             |
| Storage:                            | Freeze: Store at -5 to -30°C (F), Protect from moisture (D), Protect from light (L)  |          |                                                 |                                                                                              |             |
| Production Lot:                     | 15919                                                                                | Release: | 01-Nov-2017                                     | Expiration:                                                                                  | 01-Nov-2027 |
| 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:** 01-Nov-2017

**Signature:** Dianna M Wineinger