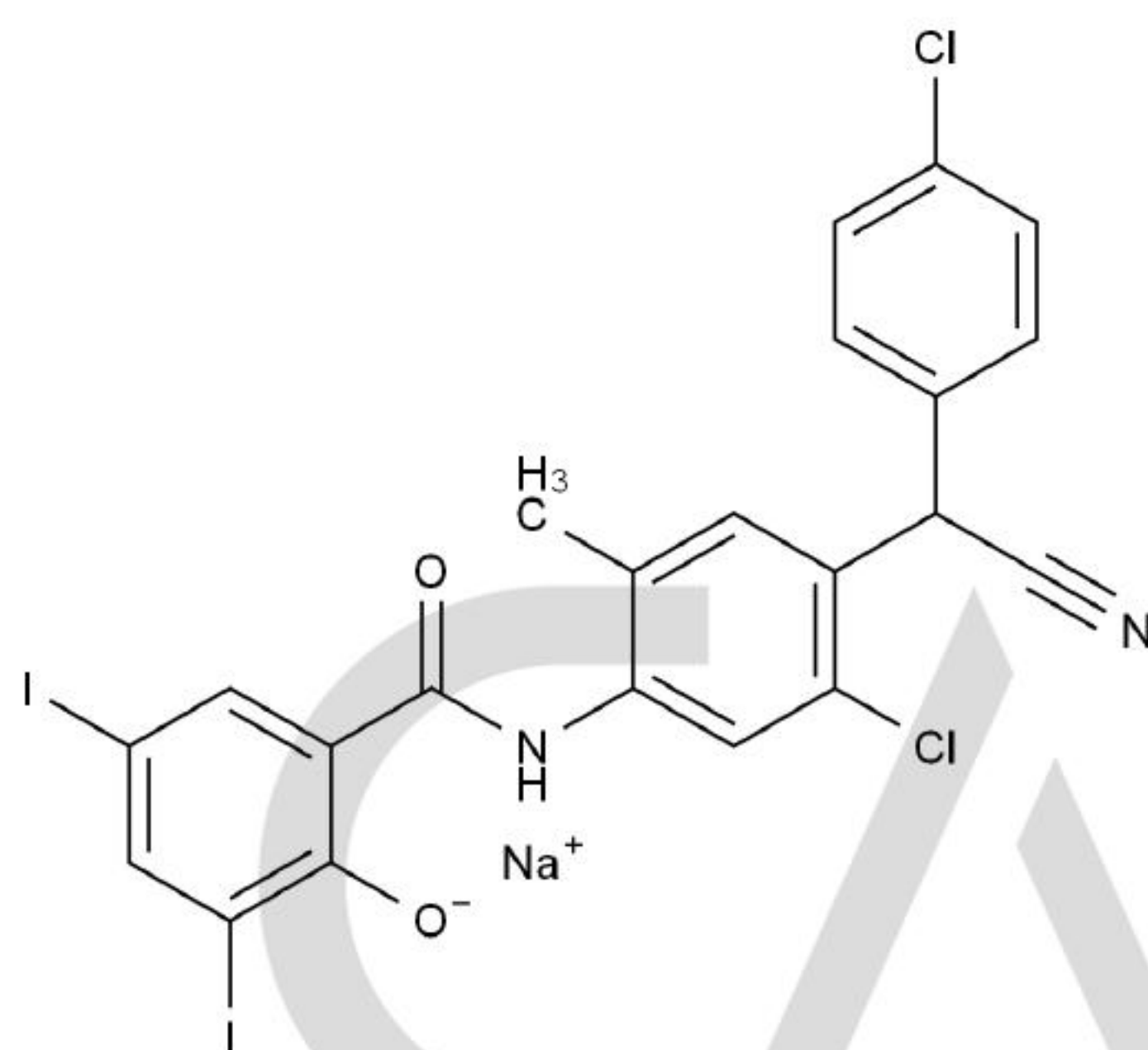


# Certificate of Analysis

## Reference Material & Standard

|                    |                                                                                  |                   |                                                                                                                                                                         |
|--------------------|----------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name:      | Closantel Sodium                                                                 | Catalogue Number: | CCAD300599                                                                                                                                                              |
| Synonyms:          | N/A                                                                              | Lot Number:       | 0716-RF-0006                                                                                                                                                            |
| CAS Number:        | 61438-64-0                                                                       | Expiry Date:      | Jul 14, 2028                                                                                                                                                            |
| Molecular Formula: | C <sub>22</sub> H <sub>13</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub> Na | Storage:          | 2°C ~ 8°C Protected from light and Sealed                                                                                                                               |
| Molecular Weight:  | 662.07 22.99                                                                     | Warning:          |   |

## Chemical Structure:



| Test Items     | Method            | Results           |
|----------------|-------------------|-------------------|
| Appearance     | Visual inspection | Pale Yellow Solid |
| Identification | LCMS&HNMR         | Confirmed         |
| Purity         | HPLC              | 99.8%             |
| Assay          | qNMR              | 94.2%             |
| Uncertainty    |                   | ±2.0%             |

## Comment:

1. Assay was determined by quantitative <sup>1</sup>H-NMR.
2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

## Signature:

Prepared by:

*Nice*

Reviewed by:

*Lisa*

Approved by General Manager:

*David*

Date: Jul 15, 2024

Date: Jul 16, 2024

Date: Jul 16, 2024

