

# Chem-Impex International, Inc.

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## Certificate of Analysis

|                          |  |
|--------------------------|--|
| <b>Catalogue Number</b>  | 38496  |
| <b>Product</b>           | <b>Tetracycline hydrochloride powder</b>                           |
| <b>Lot Number</b>        | 002546-151226-63   |
|                          | Achromycin hydrochloride   |
| <b>CAS Number</b>        | 64-75-5  |
| <b>Molecular Formula</b> | C <sub>22</sub> H <sub>24</sub> N <sub>2</sub> O <sub>8</sub> •HCl |
| <b>Molecular Weight</b>  | 480.9  |

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|-------------------------------|---|
| <b>Appearance</b>             | Yellow crystalline powder   |
| <b>Melting Point</b>          | 220 - 223 °C  |
| <b>Crystallinity</b>          | Passes test   |
| <b>Heavy Metals</b>           | < 0.004%  |
| <b>pH</b>                     | 2.26  |
| <b>Optical Rotation</b>       | [α] <sup>20</sup> <sub>D</sub> = -252 °   |
| <b>Loss on Drying</b>         | 0.30%   |
| <b>Residual Solvents</b>      | Acetone (GC): 47 ppm<br>n-Butanol (GC): 2410 ppm  |
| <b>E. Coli</b>                | Absence   |
| <b>Microbial Count</b>        | TAMC : < 10 cfu/g<br>TYMC : < 10 cfu/g  |
| <b>Related Substances</b>     | 4-Epitetracycline: 1.43%<br>4-Ephianhydrotetracycline: Not detected<br>Anhydrotetracycline: 0.13%<br>Chlortetracycline hydrochloride: 0.06%<br>2-Acetyl-2-decarbamoyletetracycline: 0.57%<br>Maximum single unknown impurity: 0.04%<br>Total impurities : 2.23% |
| <b>Assay</b>                  | 982 µg/mg   |
| <b>Grade</b>                  | suitable for cell culture   |
| <b>Storage</b>                | Store at 0 - 8 °C   |
| <b>Additional Information</b> | Identification (IR, UV, HPLC, TLC, Chloride, Color reaction) : Passes test  |

# *Certificate of Analysis*

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Lot Number: 002546-151226-63

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**Remarks**

See material safety data sheet for additional information

For laboratory use only

**The foregoing is a copy of the Certificate of Analysis as provided by our supplier**



**Bala Kumar**  
**Quality Control Manager**