



ISO 9001 CERTIFIED
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

Product: ATP DISODIUM, TRIHYDRATE

Grade: ULTRA PURE GRADE

Code: 0220

Appearance: Fine white crystalline powder

Mol. Formula: C₁₀H₁₄O₁₃N₅P₃Na₂·3H₂O

Mol. Weight: 605.24

Description:

| <u>Assay:</u> | <u>Min</u> | <u>Max</u> | <u>Units</u> | <u>Disposition</u> |
|--------------------------------------|------------|------------|--------------|--------------------|
| A250/A260 | 0.75 | 0.81 | | PASS |
| A280/A260 | 0.14 | 0.18 | | PASS |
| AMP & ADP | | 0.5 | % | PASS |
| Em (259nm, Phosphate Buffer, pH 7.0) | 14700 | | | PASS |
| Heavy Metals | | 0.003 | % | PASS |
| Moisture (KF) | | 10.0 | % | PASS |
| Purity | 98.0 | | % | PASS |
| Sodium (Flame Photom) | 7.0 | 8.0 | % | PASS |
| Solubility (5%, Water) | PASS | | P/F | PASS |

Storage: Store frozen. Keep dry. Warm to room temperature before opening.

0220UP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/4/2012