

QUALITY CONTROL DEPARTMENT CERTIFICATE OF ANALYSIS

| Prod | uct | Ciprofloxa | ein Hydrock | nloride EP | | | Page 1 of 1 | |
|---------------------------|--|----------------------------|-------------------------|---|---|--|-------------------------|--|
| CAS No. | | 86393-32-0 | | Date of Mfg. | | | May 2014 | |
| Batch No. | | CEP-MZ/140511 | | Ex | Expiry Date | | April 2019 | |
| Batch Quantity 461.60 Kg. | | | Da | | S | 11/05/2014 | | |
| A.R. No. E-22/14PP00 | | 037 | | | | 14/05/2014 | | |
| SR. | | | | SERVATIONS | SPECIFICATIONS | | | |
| NO. | | | | | | | | |
| 1. | Appearance | | | low crystalline, hygroscopic powder. | Pale yellow, crystalline, slightly hygroscopic powder. | | | |
| 2. | Solubility | | Compli | es. | Very slightly Practically in and in Methyl | n Water, Slightly soluble in Methanol, ghtly soluble in anhydrous Ethanol, y insoluble in Acetone, in Ethyl acetate ethylene chloride. | | |
| 3. | Identification A) By IR | | Confirm | Confirm. | | The Infrared absorption spectrum of test sample being examined must be concordant with the IR spectrum obtained from Ciprofloxacin Hydrochloride WS. | | |
| | B) Reaction For Chloride | | 1 | Complies. | | It gives the reaction of chlorides. | | |
| 4. | Appearance of | Solution | Compli | es. | The solution is clear and not more intensely coloured than reference solution GY ₅ . | | | |
| 5. | pН | H | | 3.58 | | Between 3.5 to 4.5 | | |
| 6. | Impurity A (By | (TLC) | Less Than 0.2% | | Not More Than 0.2% | | | |
| 7. | Related Substances | | | | | 0.00/ | | |
| | Impurity B | | 0.01% | | Not More Than 0.2% | | | |
| | • Impurity C | | | 0.02% | | Not More Than 0.2% | | |
| | Impurity D | | 0.03% | 0.03% | | Not More Than 0.2% | | |
| | • Impurity E | | | Not Detected. | | Not More Than 0.3% | | |
| | Any Other Impurity | | 0.06% | | | Not More Than 0.10% | | |
| | Total Impurities | | P. Contractor, A. C. C. | 0.16% | | Not More Than 0.5% | | |
| 8. | Heavy Metals | | | Less Than 20 ppm. | | Maximum 20 ppm. | | |
| 9. | Water (By KF) | | 5.77% | | | Maximum 6.7 %, determined on 0.2g | | |
| 10. | Sulphated Ash | | | | Maximum 0.1%, determined on 1 gm | | | |
| 11. | Assay (by HPLC) | | 99.30% | 99.30% | | Not Less Than 98.0% and Not More Than | | |
| | (on anhydrous basis) | | 22.01 | | | 102.0% | | |
| 12. | EDTA Content | | 89.86 p | pm | Not More Than 200 ppm. | | | |
| | In-House Test | | | | 1 12 12 12 12 12 | | | |
| 13. | Residual Solvents | | 104 | 124 | | Not More Than 2000 new | | |
| | • Methanol | | 1 | 124 ppm. | | Not More Than 3000 ppm. | | |
| | • n-Butanol | | | Not Detected. | | Not More Than 5000 ppm. Not More Than 890 ppm. | | |
| 2 0 0 | • Toluene | 1 . 6 . 1 | Not De | | | | | |
| Jpinio | on: The above | product Compl | ies as per EP | tion No EDS/CIPD | 1015 A Doy 0 | ie prescri | bed standard of quality | |
| | | Omehos | | KGJ08A 20105T | | | Mmhagne 20105/2014 | |
| Posit | tion | 20/05/2014 Officer Q.C. | | Executive Q.C. | | | Head Q.C. | |
| | | Prepared By | | Checked By | | | Approved by | |

Certificate Of Analysis Issued On: 20/05/2014



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