



# GUANGZHOU TOPWORK CHEMICAL CO., LTD.

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## CERTIFICATE OF ANALYSIS

|                     |                                                                                                            |                |              |
|---------------------|------------------------------------------------------------------------------------------------------------|----------------|--------------|
| PRODUCT             | Trilostane                                                                                                 | MANU. DATE     | 2014. 05. 15 |
| BATCH NO.           | 140501                                                                                                     | REPORT DATE    | 2014. 05. 16 |
|                     |                                                                                                            | RETEST DATE    | 2016. 05. 14 |
| CRITERIA            | HOUSE STANDARD                                                                                             |                |              |
| ITEMS               | STANDARD                                                                                                   | TESTING RESULT |              |
| APPEARANCE          | White to pale white powder                                                                                 | Conforms       |              |
| INDENTIFICATION     | Positive                                                                                                   | Conforms       |              |
| SOLUBILITY          | Soluble in dimethyl sulfoxide, soluble in pyridine, slightly soluble in ethanol, slightly soluble in water | Conforms       |              |
| MELTING POINT       | 257°C-270°C                                                                                                | 261°C-266°C    |              |
| HEAVY METALS        | Not more than 20ppm                                                                                        | 10ppm          |              |
| LOSS ON DRYING      | No more than 0.5%                                                                                          | 0.25%          |              |
| RESIDUE ON IGNITION | Not more than 0.10%                                                                                        | 0.03%          |              |
| RELATED IMPURITIES  | Not more than 1.0%                                                                                         | 0.4%           |              |
| ASSAY (HPLC)        | Not less than 99.0%                                                                                        | 99.42%         |              |
| SPECIFIC ROTATION   | +137° - +139°                                                                                              | +137.9°        |              |
| SOLVENT RESIDUES    | Not more than 0.5%                                                                                         | 0.1%           |              |
| CONCLUSION          | Passed                                                                                                     |                |              |



QC: TY

QA: JM

Manager: Jin Min

