**Certificate of Analysis**

**Beijing Huarui Union Bio-Med Technology Co., Ltd**

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| **PRODUCT NAME** | **Teprenone** | **Cas. No.** | **6809-52-5** |
| **BATCH NO.** | **140403** | **REPORT DATE** | **2014-04-23** |
| **MFG. DATE** | **2014-04-22** | **RETEST DATE** | **2016-04-21** |
| **PACKAGE SIZE** | **1/5/25g per bucket** | **TEST ITEMS** | **Full test** |
| **TEST REFERENCE** | **In-house Standard and JP** | | |

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| **TEST** | **SPECIFICATION** | **RESULTS** |
| **Characters** | **Appearance: a colorless to slightly yellowish clear oily liquid, with slight, characteristic odor** | **Appearance: a colorless to slightly yellowish clear oily liquid, with slight, characteristic odor** |
| **Solubility:** **Miscible with ethanol (99.5), with ethyl acetate and with hexane.** | **Miscible with ethanol (99.5), with ethyl acetate and with hexane.** |
| **Identificaion Infrared Absorption** | **Conforms to spectrum of Teprenone CRS** | **Conforms to spectrum of Teprenone CRS** |
| **Refractive index** | **: 1.485-1.491** | **1.4883** |
| **Specific gravity** | **: 0.882-0.890** | **0.8835** |
| **Residue on ignition** | **NMT 0.1%** | **0.06%** |
| **Heavy metals** | **NMT 20ppm** | **NMT 20ppm** |
| **Isomer ratio** | **about 2:3** | **0.64** |
| **Residual solvents** | **Ethyl acetate： NMT 0.5%** | **Undetected** |
| **N-heptane：NMT 0.5%** | **Undetected** |
| **Relative substance** | **Di-cis isomer of teprenone: NMT 0.5%** | **0.21** |
| **Individual impurity: NMT 0.2%** | **0.02%** |
| **Total impurities (other than the di-cis isomers of teprenone): NMT 1.0%** | **0.06%** |
| **Assay** | **97.0%~101.0%** | **100.0%** |
| **Conclusion** | **The above material complies with In-house Standard and JP** | |
| **Written by:Ling Yang** | **Reviewed by: Xv Zhang** | **Approved by: zhen Chang** |

**Teprenone**

