

CERTIFICATE OF ANALYSIS

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|---|--|------------------------------|----------|
| Name | | of | Product: |
| Pyrrolidine,2-[2-[(1R)-1-(4-chlorophenyl)-1-phenylethoxy]ethyl]-1-methyl-, (2R)-,(2E)-2-butenedioate (1:1) | | | |
| Batch No.: 20171122 | | CAS:14976-57-9 | |
| Quantity: 8kg | | Manufacture date: 2017.11.22 | |
| Test date: 2017.11.22 | | Retest date: 2019.11.21 | |

| Test Items | Quality Standard | Test Result |
|--|---|-----------------|
| Appearance | White or almost white crystalline powder | Conforms |
| Assay | R98.0%~102.0% | 99.5% |
| Test (clarity and colour of methanol solution) | clear and colorless, if turbid, should conform the rule, if has colour, should conform the rule | Conforms |
| Loss on drying | $\leq 0.5\%$ | 0.03% |
| Heavy Metal (as Pb) | $\leq 0.002\%$ | Conforms |
| Specific rotation | $+15^{\circ} \sim +18^{\circ}$ | $+16.3^{\circ}$ |
| Solubility | Slightly soluble in methanol, very slightly soluble in water or trichloromethane | Conforms |
| Related substance | Single impurity $\leq 0.5\%$ | Conforms |
| | Total impurity $\leq 1.0\%$ | Conforms |
| Identify | The location of the test article's principal spot is same as the 2Treference2T 2Tsubstance2T | Conforms |
| | TThe infra-red reference spectra of test article confirms with the 0T2Treference2T spectrum | Conforms |

| | | |
|--------------------|---------------------------------|------|
| Acidity | 3.2~4.2 | 3.54 |
| Storage conditions | Cool and dry, no more than 26°C | |

Conclusion: This product conforms to the USP36.

Analyst:

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Checker:

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Supervisor:

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