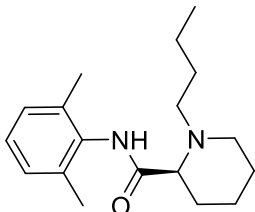




Certificate of Analysis

| | | |
|---------------------|---------------------------|--------------|
| MedKoo Cat#: | Product Name: | Lot#: |
| 319941 | Levobupivacaine free base | T20Z12C02 |

| | |
|---|---|
| Chemical name | |
| (S)-1-butyl-N-(2,6-dimethylphenyl)piperidine-2-carboxamide | |
| Synonyms | |
| Levobupivacaine free base; (S)-1-Butyl-2',6'-pipercoloxylidide; L(-)-Bupivacaine | |
| Chemical structure | CAS# and Theoretical analysis |
|  | MedKoo Cat#: 319941 Name: Levobupivacaine free base CAS#: 27262-47-1 Lot#: T20Z12C02 Chemical Formula: C ₁₈ H ₂₈ N ₂ O Exact Mass: 288.2202 Molecular Weight: 288.44 |

| Analysis item | Specifications / Results |
|---------------------------|--|
| Appearance | White to off-white solid powder |
| Structure | ¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature. |
| Purity (HPLC) | >99.0% |
| Solubility | Soluble in DMSO. |
| Conclusion | This product conforms with MedKoo's quality standards |
| Shipping condition | Shipped under ambient temperature as non-hazardous chemical. This product is stable for a few weeks during ordinary shipping and time spent in customs. |
| Storage condition | Short term storage (weeks): 0 – 4 °C under dry condition Long term storage (months): -20 °C under dry condition |
| Self life | At least 5 years if properly stored. |

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE