

Shandong Chenghui Shuangda Pharmaceutical Co., Ltd.

Address: Economic Development Zone ,Pingyuan County, Dezhou City, Shandong Province, China

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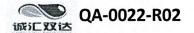
Certificate of Analysis

Request No.: 003231201

Report No.: 2312103

| Product name | Tetracaine hydrochloride | | | Batch No. | 003231201 | | |
|---------------|--------------------------|-------------|----------|-----------------|--|-------------|----------|
| Size | 25kg/barrel | | | Package | Cardboard bucket | | |
| Basis | QS-1125&EP11.0 | | | Production unit | Shandong Chenghui Shuangda Pharmaceutical Co., Ltd. | | |
| Quantity | 199.48kg | MFG.Date | 23.12.19 | Request date | 23.12.21 | | |
| Sampling Date | 23.12.21 | Report Date | 23.12.30 | Retest period | 36 months | Retest date | 2026.11. |

| Check Item | | Standard Regulation | Test Result | Single Judgement | |
|----------------|------------------------------|--|--|---------------------|--|
| | Appearance | white or almost white, slightly hygroscopic, crystalline powder. | white, slightly hygroscopic, crystalline powder. | Complies | |
| Appearance | Solubility | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Complies | |
| | Melting point | 134℃~150℃。 | 147℃~149℃ | Complies | |
| | Melting point Identification | It melts at About 131°C. | 130℃~131℃ | Complies | |
| Identification | Color reaction | To about 5mg add 0.5mL of fuming nitric acid R. Evaporate to dryness on a water-bath, allow to cool and dissolve the residue in 5mL of acetone R. Add 1mL of 0.1M alcoholic potassium hydroxide. A violet colour develops. | Complies | Complies | |
| | Infrared absorption | The infrared absorption spectrum of the sample shall be consistent with that of the reference substance | Complies | Complies | |
| | Chloride identification | It gives reaction (a) of chlorides | Complies | Complies | |
| | pН | 4.5~6.5 | 5.6 | Complies | |
| | Appearance of solution | The solution should be clear and colorless. | The solution is clear and colorless. | Complies | |
| | Loss on drying | NMT 1.0% | 0.19% | Complies | |
| | Sulfated ash | NMT 0.1%. | 0.04% | Complies | |
| Analysis | | Impurity A: NMT 0.05% | Not detected | | |
| - 2.1.1.2 | | Impurity B: NMT 0.1% | 0.0006% | | |
| | Related substances | Impurity C: NMT 0.1% | Not detected | Complies | |
| | Substances | Unspecified single impurity: NMT 0.10% | Less than limits of ignored | - Karajalas | |
| | | Total impurities: NMT 0.2% | 0.0006% | | |



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Certificate of Analysis

| Product name | Tetracaine hydrochloride | Batch No. | 003231201 |
|--------------|--------------------------|-----------|-----------|
|--------------|--------------------------|-----------|-----------|

| Check Item | | Standard Regulation | Test Result | Single Judgement | |
|------------------------|---------------------------|--|-----------------------|---------------------|--|
| | | Ethanol:NMT 5000ppm(LOD 20ppm) | 156.6ppm | | |
| | Residual | Acetone:NMT 5000ppm(LOD 10ppm) | Not detected | Complies | |
| | solvents | N-butanol:NMT 5000ppm(LOD 100ppm) | Not detected | | |
| Analysis | | Toluene:NMT 890ppm(LOD 9.1ppm) | Not detected | | |
| | N,N-Dimethyle thanolamine | NMT 500ppm(LOD 2.7ppm) | Less than LOD | Complies | |
| | N-butyraldehyde | NMT 30ppm(LOD 0.16ppm) | 1.7ppm | Complies | |
| Bacteri | al endotoxin | Less than 0.15EU/mg | Complies | Complies | |
| | | TAMC:NMT 103cfu/g | Less than 25×10¹cfu/g | | |
| Microbiological Assay | | TYMC:NMT 10 ² cfu/g | Less than 10cfu/g | Complies | |
| | | Escherichia coli absent in 1 g Not | | Augustion - | |
| | | NLT 99.0% and NMT 101.0%, calculated on the dried basis. | 100.4% | Complies | |

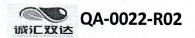
[Related substances]: Limits of ignored: Chromatographic peaks smaller than the peak area of tetracaine in the sensitivity

solution are ignored.

Conclusion: Meets the requirements of QS-1125&EP1

Quality Manager:





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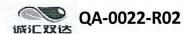
Certificate of Analysis

Request No.: 003231202

Report No.: 2401017

| Product name | Tetracaine hydrochloride | | | Batch No. | 003231202 | | |
|---------------|--------------------------|-------------|----------|-----------------|---|-------------|----------|
| Size | 25kg/barrel | | | Package | Cardboard bucket | | |
| Basis | QS-1125&EP11.0 | | | Production unit | Shandong Chenghui Shuangda Pharmaceutical Co., Ltd. | | |
| Quantity | 204.51kg | MFG.Date | 23.12.25 | Request date | 23.12.30 | | |
| Sampling Date | 23.12.30 | Report Date | 24.01.09 | Retest period | 36 months | Retest date | 2026.11. |

| Che | ck Item | Standard Regulation | Test Result | Single Judgement | |
|----------------|------------------------------|--|--|---------------------|--|
| | Appearance | white or almost white, slightly hygroscopic, crystalline powder. | white, slightly hygroscopic, crystalline powder. | Complies | |
| Appearance | Solubility | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Complies | |
| | Melting point | 134℃~150℃。 | 148℃~149℃ | Complies | |
| Identification | Melting point Identification | It melts at About 131°C. | 128℃~131℃ | Complies | |
| | Color reaction | To about 5mg add 0.5mL of fuming nitric acid R. Evaporate to dryness on a water-bath, allow to cool and dissolve the residue in 5mL of acetone R. Add 1mL of 0.1M alcoholic potassium hydroxide. A violet colour develops. | Complies | Complies 1 | |
| | Infrared absorption | The infrared absorption spectrum of the sample shall be consistent with that of the reference substance | Complies | Complies | |
| | Chloride identification | It gives reaction (a) of chlorides | Complies | Complies | |
| | pН | 4.5~6.5 | 5.3 | Complies | |
| | Appearance of solution | The solution should be clear and colorless. | The solution is clear and colorless. | Complies | |
| | Loss on drying | NMT 1.0% | 0.17% | Complies | |
| | Sulfated ash | NMT 0.1%. | 0.03% | Complies | |
| Analysis | Total Activities | Impurity A: NMT 0.05% | Not detected | | |
| | | Impurity B: NMT 0.1% | 0.002% | Long has | |
| | Related substances | Impurity C: NMT 0.1% | 0.001% | Complies | |
| | | Unspecified single impurity: NMT 0.10% | Less than limits of ignored | | |
| | | Total impurities: NMT 0.2% | 0.003% | | |



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| Product name | Tetracaine hydrochloride | Batch No. | 003231202 | |
|--------------|--------------------------|-----------|-----------|--|
| | | | | |

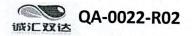
| Check Item | | Standard Regulation | Test Result | Single Judgemen | |
|-----------------|---------------------------|--|----------------------------------|--------------------|--|
| | | Ethanol:NMT 5000ppm(LOD 20ppm) | :NMT 5000ppm(LOD 20ppm) 261.1ppm | | |
| | Residual | Acetone:NMT 5000ppm(LOD 10ppm) | Not detected | | |
| | solvents | N-butanol:NMT 5000ppm(LOD 100ppm) | Not detected | Complies | |
| Analysis | | Toluene:NMT 890ppm(LOD 9.1ppm) | Not detected | | |
| | N,N-Dimethyle thanolamine | NMT 500ppm(LOD 2.7ppm) | Not detected | Complies | |
| | N-butyraldehyde | NMT 30ppm(LOD 0.16ppm) | 1.6ppm | Complies | |
| Bacteria | al endotoxin | Less than 0.15EU/mg | Complies | Complies | |
| | | TAMC:NMT 10 ³ cfu/g | Less than 25×10¹cfu/g | | |
| Microbiological | | TYMC:NMT 10 ² cfu/g | Less than 10cfu/g | Complies | |
| | | Escherichia coli absent in 1 g | | i Santher | |
| Assay | | Assay NLT 99.0% and NMT 101.0%, calculated on the dried basis. | | Complies | |

[Related substances]: Limits of ignored: Chromatographic peaks smaller than the peak area of tetracaine in the sensitivity solution are ignored.

Conclusion: Meets the requirements of QS-1125&EH

Quality Manager:





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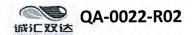
Certificate of Analysis

Request No.: 003231203

Report No.: 2401018

| Product name | Totrogging | Totangoine had a 11 11 | | | | 01010 | |
|---------------|--------------------------|------------------------|----------|-----------------|--|-------------|----------|
| Troduct name | Tetracaine hydrochloride | | | Batch No. | 003231203 | | |
| Size | 25kg/barrel | | | Package | Cardboard bucket | | |
| Basis | QS-1125&EP11.0 | | | Production unit | Shandong Chenghui Shuangda Pharmaceutical Co., Ltd. | | |
| Quantity | 204.21kg | MFG.Date | 23.12.28 | Request date | 23.12.30 | | |
| Sampling Date | 23.12.30 | Report Date | 24.01.09 | Retest period | 36 months | Retest date | 2026.11. |

| Check Item | | Standard Regulation | Test Result | Single Judgeme | |
|----------------|------------------------------|--|--|-------------------|--|
| | Appearance | white or almost white, slightly hygroscopic, crystalline powder. | white, slightly hygroscopic, crystalline powder. | Complies | |
| Appearance | Solubility | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Freely soluble in water, soluble in ethanol (96%), practically insoluble in heptane. | Complies | |
| | Melting point | 134℃~150℃。 | 148℃~149℃ | Complies | |
| Identification | Melting point Identification | It melts at About 131°C. | 130℃~131℃ | Complies | |
| | Color reaction | To about 5mg add 0.5mL of fuming nitric acid R. Evaporate to dryness on a water-bath, allow to cool and dissolve the residue in 5mL of acetone R. Add 1mL of 0.1M alcoholic potassium hydroxide. A violet colour develops. | Complies | Complies | |
| | Infrared absorption | The infrared absorption spectrum of the sample shall be consistent with that of the reference substance | Complies | Complies | |
| | Chloride identification | It gives reaction (a) of chlorides | Complies | Complies | |
| | pН | 4.5~6.5 | 5.3 | Complies | |
| | Appearance of solution | The solution should be clear and colorless. | The solution is clear and colorless. | Complies | |
| | Loss on drying | NMT 1.0% | 0.19% | Complies | |
| | Sulfated ash | NMT 0.1%. | 0.02% | Complies | |
| Analysis | r Jones W | Impurity A: NMT 0.05% | Not detected | | |
| | | Impurity B: NMT 0.1% | 0.002% | Contention. | |
| | Related substances | Impurity C: NMT 0.1% | 0.001% | Complies | |
| | | Unspecified single impurity: NMT 0.10% | Less than limits of ignored | | |
| | | Total impurities: NMT 0.2% | 0.003% | | |



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Certificate of Analysis

| Product name | Tetracaine hydrochloride | Batch No. 003231203 |
|--------------|--------------------------|---------------------|
|--------------|--------------------------|---------------------|

| Check Item | | Standard Regulation | Test Result | Single Judgement |
|------------------------|---------------------------|--|-----------------------|---------------------|
| | | Ethanol:NMT 5000ppm(LOD 20ppm) | 266.2ppm | Complies |
| | Residual | Acetone:NMT 5000ppm(LOD 10ppm) | Not detected | |
| | solvents | N-butanol:NMT 5000ppm(LOD 100ppm) | Not detected | |
| Analysis | | Toluene:NMT 890ppm(LOD 9.1ppm) | Not detected | |
| | N,N-Dimethyle thanolamine | NMT 500ppm(LOD 2.7ppm) | Not detected | Complies |
| | N-butyraldehyde | rde NMT 30ppm(LOD 0.16ppm) 1.3ppm | | Complies |
| Bacteri | al endotoxin | Less than 0.15EU/mg Complies | | Complies |
| | | TAMC:NMT 10 ³ cfu/g | Less than 25×10¹cfu/g | |
| Microbiological Assay | | TYMC:NMT 10 ² cfu/g | Less than 10cfu/g | Complies |
| | | Escherichia coli absent in 1 g | | Casa phase |
| | | NLT 99.0% and NMT 101.0%, calculated on the dried basis. | 99.5% | Complies |

[Related substances]: Limits of ignored: Chromatographic peaks smaller than the peak area of tetracaine in the sensitivity

solution are ignored.

Conclusion: Meets the requirements of QS-1125

Quality Manager: