

**杭州东瑞医药科技有限公司**  
**HANGZHOU DAWN RAY PHARMACEUTICAL CO.,LTD.**

**CERTIFICATE OF ANALYSIS**

**Ticarcillin Disodium**

<b>Batch No.:</b> DR20120507	<b>Piece:</b> 25kg
<b>Manufacture Date:</b> 2012.05.07	<b>Expiry Date:</b> 2013.11.06

**TESTS:**

Items	Specification	Results
Characteristics	White or yellowish-white crystalline powder	Conforms
Specific rotation	+172° ~+187°	+183°
Identification	1) Chemical reaction: Positive 2) Sodium: Positive 3) HPLC: The retention time of the major peak is consistent with the preparation as obtained in the assay. 4) IR: The infrared absorption spectrum is consistent with the spectrum of ticarcillin reference substance.	Conforms
PH	6.0~8.0	6.5
Clarity and color of solution	Clear and not more than Y3 or YG3	Conforms
Water	≤3.5%	2.8%
Related substances	≤4.0%	0.29%
Residual solvents	≤2.5%	0.26%
Heavy metals	Should meet the requirements	Conforms
Bacterial endotoxins	≤10ppm	Conforms
Sterility	< 0.05EU/mg	Conforms
Assay	Ticarcillin(C <sub>15</sub> H <sub>16</sub> N <sub>2</sub> O <sub>6</sub> S <sub>2</sub> ,dried basis) ≥80.0%	88.7%
Conclusion: The results conform with USP.		



**Analyst:** \_\_\_\_\_

**Checker:** \_\_\_\_\_

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