

## Certificate Of Analysis

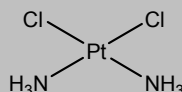
### Quality Control Testing and Research Application

COA Preparation Date: 25/09/2013  
COA Revision Date: 25/09/2016

**Product:** Cisplatin  
**Cat. No.:** BG0395  
**Batch No.:** 0395BG/01  
**Chemical Name:** *cis*-Diaminodichloroplatinum; CDDP

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** Cl<sub>2</sub>H<sub>6</sub>N<sub>2</sub>Pt  
**Batch Molecular Weight:** 300.05  
**CAS No.:** [15663-27-1]  
**Physical Appearance:** Yellow solid  
**Melting Point:**  
**Solubility:** Soluble to 50 mM in DMSO  
**Storage:** RT  
**Batch Molecular Structure:**



**Product Description:** Potent anticancer agent that blocks DNA synthesis. Cytotoxicity is mediated through induction of apoptosis and arrest of cell cycle resulting from its interaction with DNA, such as the formation of Cisplatin-DNA adducts, which activates multiple signaling pathways, including those involving p53, Bcl-2 family, Caspases, Cyclins, CDKs, pRb, PKC, MAPK and PI3K/Akt.

**References:** 1. Seki et al. (2000) Cancer Chemother Pharmacol 45:199; 2. Wang et al. (2004) Oncol Rep 12:955; 3. Baruah et al. (2004) Curr Top Med Chem 4:1537

- CAUTION - Not fully tested. For Research use only. Not for human use. –

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**BG0395 Cisplatin**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: 99.7% (complies).

Cl <sub>2</sub> H <sub>6</sub> N <sub>2</sub> Pt		[15663-27-1]
Item	Standard	Result
1) Characteristics:	yellow crystalline powder	Conforms ✓
2) Color of solution	solution is yellow and clear	Conforms
3) Identification:		
1.HPLC:	the retention time of the major peak corresponds to that of the standard sample	Conforms
2.IR	the infrared absorption time spectrum exhibits maximum only at the same wavelengths as that of the standard sample	Conforms
3.TLC	the only spot exists and it corresponds in appearance and R <sub>f</sub> to that of the standard sample	Conforms
4) Water content:	≤1.0%	0.16%
5) UV purity ratio:	≥4.5%	4.7 %
6) Trichloroammine platinate	≤1.0%	0.23%
7) Transplatin:	≤2.0%	0.29%
8) Platinum content:	64.42%-65.22%	64.53 %
9) Assay( HPLC):	98%-102%	99.77% ✓
10) Packing and Storage: Preserve in tight containers, protected from light.		

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