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# Certificate of Analysis

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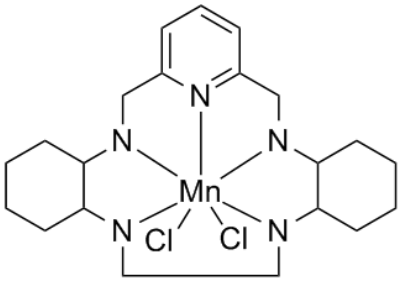
**Product Name** : Imisopasem manganese
**Cat. No.** : PC-43504
**CAS No.** : 218791-21-0
**Batch No.** : PC-4350401
**Chemical Name** : Manganese, dichloro[(4aR,13aR,17aR,21aR)-1,2,3,4,4a,5,6,12,13,13a,14,15,16,17,17a,18,19,20,21,21a-eicosahydro-11,7-nitrilo-7H-dibenzo[b,h][1,4,7,10]tetraazacycloheptadecine-κN5,κN13,κN18,κN21,κN22]-, (PB-7-11-2344'3')-

## PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Weight** : 479.348385
**Molecular Formula** : $C_{21}H_{31}Cl_2MnN_5$
**Storage** :

| | | |
|---|---|---|
| Powder | -20°C | 3 years |
| | 4°C | 2 years |
| In solvent | -80°C | 6 months |
| | -20°C | 1 month |

**Chemical Structure** :




## ANALYTICAL DATA

**Appearance** : Solid powder
**$^1$H NMR Spectrum** : Consistent with
**HPLC** : Consistent with
**NP** : Consistent with
**Purity (HPLC)** : >98%
**Conclusion** : The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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