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# Certificat of analysis

**Commercial Name:** CPTA, 4 HCl

**Chemical Name:** 4-((1,4,8,11-tetraazacyclotetradecan-1-yl)methyl)benzoic acid + 4 HCl

**Mw:** 334,46 g.mol-1

**Formule:** $C_{18}H_{30}N_4O_2$, 4 HCl

**Sample from batch #** 088 091123 F1

| | SPECIFICATIONS | RESULTS |
|---|---|---|
| **Appearance** | White powder | White powder |
| **Identification** | | |
| NMR $^1H$ | Conform to reference's spectrum | Conform to reference's spectrum |
| Mass | Conform to reference's spectrum | Conform to reference's spectrum |
| **Analysis** | | |
| HPLC | 95% **at** 201 nm | 100 % |
| Elemental analysis | **Δ%C, H, N < 0,04 %** | Conform with: $C_{18}H_{30}N_4O_2$, 4 HCl, 3 $H_2O$ Fw: 534,34 g/mol |

Manufacturing date : 09/11/2023

Retest date : 11/2026

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|---|---|---|
| **Date** 17/11/2023 | **Head of Quality control** | M. BIANCO 17 NOV. 2023 |