CheMatech SAS
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CERTIFICATE OF ANALYSIS

Commercial name: DO2AtBu-Monoamide-Monoacide
Chemical name: 2-(7-(2-amino-2-oxoethyl)-4,10-bis(2-tert-butoxy-2-oxoethyl)--1,4,7,10-tetraazacyclododecan-1-yl)ethanoic acid
Mw: 515,64 $g.mol^{-1}$
Chemical Formula: $C_{24}H_{45}N_5O_7$
Sample from batch # 134 G 190922 F1
Storage temperature: - 20°C ± 5°C

	SPECIFICATIONS	RESULTS
Appearance		
Appearance - *Visual inspection*	White to yellow powder	White powder
Identification		
Identification - *^1H NMR*	Conform to reference spectrum	Conform to reference spectrum
Identification - *MS*	516,64 ± 1 (m + 1) g/mol	515,85 g/mol
Analysis		
Chemical purity - *HPLC - UV*	≥ 95 %	98,2 %
Metals content – *ICP-AES* - Cu - Fe - Zn - Ni	*To be defined*	Cu < 1 ppm Fe = 4,9 ppm Zn < 2 ppm Ni < 1 ppm
Bromide content – *IC*	*To be defined*	2,45 %
Potassium content – *ICP-MS*	*To be defined*	1,08 %
Pd content – *ICP-MS*	*To be defined*	< 1 ppm
Residual solvents – *GC-MS* - Acetonitrile - Ethanol - Acetone - Toluene	*Specifications established according to ICH Q3C* Acetonitrile < 410 ppm Ethanol < 5000 ppm Acetone < 5000 ppm Toluene < 890 ppm	Acetonitrile < 0,3 ppm Ethanol < 5 ppm Acetone = 4,1 ppm Toluene = 1,0 ppm

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	SPECIFICATIONS	RESULTS
Analysis		
Elemental analysis - *OEA*	Δ%C, Δ%N < 0,4	Conform with $C_{24}H_{45}N_5O_7$ + 0,5 KBr + H_2O Fw = 593,17 g/mol

Manufacturing date: 05/10/2022
Retest date: N/A

Head of Quality Control / Quality Assurance	Stamp
M. BLANCO, le 22/11/2000	CheMatech macrocycle design technologies 2, rue Pauline Kergomard - 21000 Dijon - France SAS au capital de 995 085 Euros RCS DIJON 917 877 094 SIRET 917 877 094 00016 - APE 7112 B

Version	Date	Modification
1	22/11/2022	Creation of the CoA