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CERTIFICATE OF ANALYSIS

PRODUCT **Zinc chloride solution 40% chemically pure**

MANUFACTURING DATE **: 22-01-2024 to 26-01-2024**

EXPIRATION DATE **: 22-01-2029 to 26-01-2029**

STORAGE TEMPERATURE **: Less than or equal to 50 °C**

IDENTIFICATION PACK Nr **: HZCL24001 to HZCL24005**

IDENTIFICATION BATCH **: HZCLB2401 to HZCLB2405** LOT CONDITIONNE 331703F

PARAMETERS	METHODS	ANALYSIS					SPECIFICATIONS
Pack numbers		**HZCL24001**	**HZCL24002**	**HZCL24003**	**HZCL24004**	**HZCL24005**	
Appearance	Visual	colourless	colourless	colourless	colourless	colourless	Clear, colourless
Assay ($ZnCl_2$)	Automatic Titrator	40.13	40.21	40.76	40.86	40.39	39.0 – 41.0 %
Zn	Automatic Titrator	19.26	19.30	19.56	19.60	19.39	18.7 – 19.7 %
Oxychlorides	Automatic Titrator	0.32	0.27	0.70	0.24	0.59	≤ 2.9 %
Density	Electronic Densimeter	1.418	1.417	1.424	1.425	1.421	1.41 – 1.44
pH value	Electronic pH-meter	3.63	3.16	3.53	3.07	3.07	2.0 – 4.0
Chlorides (Average)	Automatic Titrator	21.15					20.3 – 21.3 %
Pb (Average)	ICP	0.1					≤ 15 ppm
As (Average)	ICP	0.1					≤ 5 ppm
Cd (Average)	ICP	0.2					≤ 5 ppm
SO_4^{2-} (Average)	ICP	0.7					≤ 100 ppm
NH_4^+ (Average)	Automatic Titrator	6					≤ 50 ppm
Ca (Average)	ICP	0.5					≤ 5 ppm
K (Average)	ICP	1.2					≤ 5 ppm
Mg (Average)	ICP	0.1					≤ 5 ppm
Na (Average)	ICP	0.5					≤ 5 ppm
Fe (Average)	ICP	0.5					≤ 50 ppm
Ni (Average)	ICP	0.1					≤ 2 ppm
Cu (Average)	ICP	0.2					≤ 2 ppm
Cr (Average)	ICP	0.1					≤ 2 ppm
Mn (Average)	ICP	0.1					≤ 2 ppm
Al (Average)	ICP	0.4					≤ 5 ppm
Ba (Average)	ICP	0.1					≤ 5 ppm
NO_3^-	Test qualitatif	<6					≤ 30 ppm

DATE : 07-02-2024

SIGNATURE :

QC MANAGER