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FORMATE NAME:	CERTIFICATE OF ANALYSIS		
FORMATE NO:	QC-F-17-04-00	PAGE NO.	1 OF 1
EFFECTIVE DATE:	01-04-2023	NEXT REVIEW DATE	01-04-2026

TUESDAY, OCTOBER 10, 2023

CERTIFICATE OF ANALYSIS

PRODUCT	: MANGANESE SULPHATE MONOHYDRATE	
CAS NO.	: 10034 -96 -5	
LOT NO. & QUANTITY	LOT NO.	QUANTITY
	272	25000 KGS. (1000 BAGS. x 25 KGS.)
	273	25000 KGS. (1000 BAGS. x 25 KGS.)
	TOTAL	50000 KGS.
DATE OF MFG.	: OCTOBER – 2023	
DATE OF EXPIERY	: OCTOBER – 2026	
	:	
PURCHASE ORDER NO.& DATE	: 5000038513 (Dt. 26.09.2023)	
EXPORT INV. NO. & DATE	: EXP/118/23-24 , (DT. 10/10/2023)	
	:	

ANALYSIS

Tests	:	Observation		Specificat. Limit
		272	273	
Lot Number	:	272	273	—
Assay (w/w)	:	98.87 %	98.83 %	98.5 % Min.
Mn Content	:	32.17 %	32.16 %	32.0 % Min.
Iron (Fe)	:	≤50 ppm	≤50 ppm	50 ppm Max.
Chloride	:	≤0.040 %	≤0.040 %	0.040 % Max.
Lead (Pb)	:	≤30 ppm	≤30 ppm	30 ppm Max.
Arsenic (As)	:	≤2 ppm	≤2 ppm	2 ppm Max.
Mercury	:	≤0.5 ppm	≤0.5 ppm	0.5 ppm Max.
Antimony	:	≤15 ppm	≤15 ppm	15 ppm Max.
Nickel (Ni)	:	≤80 ppm	≤80 ppm	80 ppm Max
Insoluble (w/w)	:	0.085 %	0.083 %	0.1 % Max.
Moisture (w/w)	:	0.2957 %	0.3076 %	0.5 % Max.

Physicals Charact. :-

Appreance	:	White to light pink powder	White to light pink powder	White to light pink powder
Bulk Density	:	1.3928 g/cc	1.3927 g/cc	1.20 – 1.40 g/cc
Dissolution test (10 %)	:	Clear Soln.	Clear Soln.	Highly soluble in water

REMARK : **PASSES**

ANALYST BY
(QC CHEMIST)

APPROVED BY
(HEAD Q.C.)