



DRUGS AND CHEMICALS LIMITED

CERTIFICATE OF ANALYSIS

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THE DRUGS & COSMETICS ACT 1940 AND RULES THEREUNDER CERTIFICATE OF ANALYSIS
APPROVED TESTING LABORATORY BY FDCA-GANDHINAGAR

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QUALITY ASSURANCE DEPARTMENT

Material Name: Magnesium Hydroxide USP				Page 1 of 1	
Batch No.	MH/24/0475			Qty Sampled	100 gm
Batch Qty.	2000 Kg	Mfg. Date	July-2024	Exp. Date	June-2029
Released date	13/07/2024				

Reference: USP-40 + In-house			CAS No.	1309-42-8
Mol. Formula		Mg(OH) ₂	Mol. Weight	58.32 gm/mol
Sr. #	Test	Result	Specification	
1	Description*	Pass	White or almost white, amorphous powder.	
2	Solubility	Pass	Practically insoluble in water and in Alcohol. It dissolves in dilute Acids.	
3	Identification	Pass	It gives test for Magnesium	
4	Loss on drying*	1.00 %	Not more than 2.0 %	
5	Loss on ignition	31.35 %	Between 30.0 % to 33.0 %	
6	Soluble salts	6.9 mg	Not more than 10 mg	
7	Carbonate	Complies	Not more than slight effervescence is observed	
8	Limit of calcium	Complies	Not more than 1.5 %	
9	Limit of Lead	Complies	Not more than 0.00015 %	
10	Assay as Mg(OH) ₂ (on Dried basis) *	98.31 %	Between 95.0 % to 100.5 % of Mg(OH) ₂	
11	Microbial enumeration test <i>E-coli</i> TAMC TYMC	Absent Complies Complies	Absent per gram 250 cfu per gram 50 cfu per gram	
Additional Test :				
12	Bulk Density Tapped (150 tap)	0.5263 gm/ml	Between 0.5 gm/ml to 0.7 gm/ml	
13	Average Particle Size D(0.9)	38.561 um	Between 30.0 um to 52.0 um	

* Re-testing parameter.

OPINION: The above sample **Complies** / **Does not comply** to the prescribed standard of quality in respect of the
Above tests as per USP-40 + In-house specification.

Remarks: Heavy Grade

Protocol No. #	Page #	Test performed (Sr. #)	Analyzed by	Date
N. A.	1	1 to 10 & 12	R	08/07/2024
N. A.	1	11	SP	13/07/2024
N. A.	1	13	R	09/07/2024

Attachment: —

Checked by: Rm
Date: 15/07/2024

Approved by:
Date:



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