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CELLULOSE & DERIVATIVES
CERTIFICATE OF ANALYSIS

Product: RUTOCEL® Brand Hydroxypropyl Methylcellulose HYPROMELLULOSE (HPMC)
Grade: 60RT6 (E6) USPXXXIX Conforming Microbiological Test in Multicolored Fiber Drum,
Quantity: 10500KG
Lot Number: 8020250724173
Invoice Number: RT-W-2508051
Date of Manufacture: 2025-07-24
Before/Date of Expiry: 2028-07-23
Invoice Date: 2025-08-13

TEST ITEM	SPECIFICATION	TEST RESULT
APPEARANCE	A white, yellowish white or greyish-white powder or granules; hygroscopic after drying.	CONFORMS
SOLUBILITY	Practically insoluble in hot water, in acetone, in anhydrous ethanol and in toluene. It dissolves in room water giving a colloidal solution.	CONFORMS
IDENTIFICATION		
Test A	The powdered material aggregates on the surface.	CONFORMS
Test B	A clear or slightly turbid solution occurs with its thickness dependent on the viscosity grade.	CONFORMS
Test C	A red colour develops at first and changes to purple within 100 min.	CONFORMS
Test D	A coherent, clear film forms on the glass slide.	CONFORMS
TEST E	The flocculation temperature is higher than 50°.	CONFORMS
APPEARANCE OF SOLUTION	The solution is not more opalescent than reference suspension Q53 and not more intensely coloured than reference solution Y56.	CONFORMS
HYDROXYPROPYL CONTENT (wt%)	7.0-12.0	7.8
METHOXYL CONTENT (wt%)	28.0-30.0	28.7
APPARENT VISCOSITY (cp)	4.0-7.2	6.8
PH (25°C)	5.0-6.0	6.10
LOSS ON DRYING AT 105°C FOR 1HR (wt%)	5.0max	4.2
SULPHATED ASH (wt%)	1.5max	0.96
HEAVY METALS (ppm)	20 max	Less than 20
ARSENIC (ppm)	3max	Less than 3
CHLORIDES (wt%)	0.5max	Less than 0.5
TOTAL BACTERIUM	1000cfu/gram max	60
MOULD	100cfu/gram max	30
FOREIGN PARTICLES	Should be free from foreign visible particles	CONFORMS
PARTICLE SIZE THROUGH 100 SIEVE	Min 99.0 pass through 100 sieve	CONFORMS

This material meets all requirements of USP43- NF 34 Second-Supplement for the monograph Hydroxypropyl Methylcellulose 2910, the IP, EP and the JP.

This material passes USP identification tests A, B, C, D and E.

This material meets USP organic volatile impurity limits (Process Knowledge).

This product has been manufactured in accordance With the FDA'S GMP.

WangQiang
Quality Control Manager
Date: August 15, 2025



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