



Colorcon Asia Pacific Pte Ltd
1 Kim Seng Promenade #16-03
East Lobby, Great World City Office Tower
Singapore 237994

Certificate of Analysis

Date: 20 Dec 2022
Our ref. no.: 42965487 30
Your ref. SGF-306269

Material:	301299	METHOCEL(TM) A15 Premium LV Methylcellulose
Batch No.:	2464279740	Retest date: 24 Sep 2027
Quantity:	900 KG	Production date: 25 Sep 2022

Test	Result	Specification	Unit	Reference
Apparent Viscosity 1)	14	12 - 18	mPa sec	CURRENT USP/EP/JP
Moisture	2.9	<= 5.0	%	CURRENT USP/EP/JP
Residue on ignition	0.9	<= 1.5	%	CURRENT USP/JP
Sulphated ash	0.9	<= 1.5	%	CURRENT USP/EP/JP
pH 2)	7.0	5.0 - 8.0		CURRENT USP/EP/JP
Opalescence	Passes test	Passes test		CURRENT EP
Colour Evaluation 3)	Passes test	Passes test		CURRENT EP
Methoxyl content	29.5	27.5 - 31.5	%	CURRENT USP/EP/JP

Comments

The material property data reported in this COA are representative values obtained in laboratory tests conducted on a product sample taken from the batch produced. The undersigned certifies, that at the time of issuance of this COA, that the material property data reported are the results of the tests conducted. It is the recipient's sole responsibility to determine the suitability and legality of its proposed use of the Products.

If provided in any language other than English, the original English version will control, and the undersigned hereby disclaims responsibility for any errors caused by translation.

It is hereby certified that the material indicated above has been manufactured in accordance with excipient and food additive GMPs, was inspected and tested in accordance with current USP/Ph.Eur./JP/E461/JECFA/FCC for Methylcellulose and, unless agreed otherwise, conforms in all respects to the specification relevant thereto.

This batch, based on audit testing and process control, is certified to be NMT 20 mg/kg heavy metals (as Pb) and also meets all specification requirements for harmonized identification tests, residual solvents and microbiological



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limits.

- 1) Measurement conditions: 2% in water, @ 20degC
- 2) Measurement conditions: 2%in water
- 3) Measurement conditions: Solution Color

This certificate is generated automatically

Kyle Rechsteiner

Quality Control Department