



大连汉德姆精细化学品有限公司

**DALIAN HANDOM CHEMICALS CO.,LTD.**

## Certificate of Analysis

**Product Name:** Carbomer 980

**Quantity:** 20000kg

**Retest Date:** Dec 22<sup>nd</sup>, 2024

**Batch No.:** HDC20221223

**Manufacturing Date:** Dec 23<sup>rd</sup>, 2022

**Report Date:** Dec 24<sup>th</sup>, 2022

Test Item	Specification	Test Result	Test Method
Identify	Meets the requirement	Conforms	IR
0.5% aqueous solution viscosity	40,000~60,000 mpa.s	50,100	Rotary Viscometer
0.5% aqueous solution transmittance(420nm)	> 85%	95%	UV
Residual Ethyl Acetate	≤0.5%	0.42%	Gas Chromatography
Residual Cyclohexane	≤0.3%	0.12%	Gas Chromatography
Residue on Ignition	≤4.0%	2.1%	---
Acrylic Acid	≤0.25%	0.15%	HPLC
Loss on Drying	≤2.0%	0.7%	Oven
-COOH	56.0%~68.0%	62.2%	Acid Base Titration

**Conclusion:** This batch of testing results comply with the enterprise standard.