

## HENAN GINO BIOTECHNOLOGY CO.,LTD.

NO. 6, YUYING ROAD, ZHENGZHOU, 450000 HENAN, CHINA  
TEL.: +86-371-58693987

<b>PRODUCT NAME</b>	<b>PRODUCT TYPE</b>	<b>QUANTITY</b>
INSTANT CARRAGEENAN	IOTA SEMI-REFINED	400 KGS
<b>BATCH NO.</b>	<b>PRODUCTION DATE</b>	<b>SHELF LIFE</b>
ZN23070401	2023.07.04	24 MONTHS

NO.	ITEMS	SPECIFICATION	RESULTS
1	Appearance	White to yellowish powder or granule	Pass
2	Particle Size	90% pass 200 mesh	Pass
3	Lossing on Drying (105°C 4h), %	≤ 12.0	8.22
4	Viscosity (1.5%,75°C), mPa.s	≥ 5	19
5	Gel Strength (CaCl <sub>2</sub> ), g/cm <sup>2</sup>	≥ 5	19
6	Total Ash (550°C 4h), %	15 - 40	20.21
7	pH (1%)	8.0 - 11.0	10.5
8	Total Sulphate, %	15 - 40	Pass
9	Acid-insoluble Ash, %	≤ 1.0	< 1.0
10	Arsenic(As), mg/kg	≤ 3.0	Pass
11	Lead(Pb), mg/kg	≤ 5.0	Pass
12	Cadmium(Cd), mg/kg	≤ 2.0	Pass
13	Mercury(Hg), mg/kg	≤ 1.0	Pass
14	Total Plate Count, CFU/g	≤ 5000	<1000
15	Yeast & Moulds, CFU/g	≤ 300	<100
16	E.Coli	Absent in 5 g	Pass
17	Salmonella	Absent in 10 g	Pass

Conclusion: Comply with the standard of E407 & GB 1886.169-2016

Analyst: Binbin Wu      Verification: Xueli Yang  
Date of analysis: 2023.07.04      Date of report: 2023.07.08

**SIGNED FOR AND ON BEHALF OF HENAN GINO BIOTECHNOLOGY CO.,LTD.**

.....WENJING GAO.....  
**AUTHORIZED SIGNATURE**

HENAN GINO BIOTECHNOLOGY CO.,LTD.  
河南喆诺生物科技有限公司

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<b>PRODUCT NAME</b>	<b>PRODUCT TYPE</b>	<b>QUANTITY</b>
INSTANT CARRAGEENAN	KAPPA SEMI-REFINED	500 KGS
<b>BATCH NO.</b>	<b>PRODUCTION DATE</b>	<b>SHELF LIFE</b>
ZN23090301	2023.09.03	24 MONTHS

NO.	ITEMS	SPECIFICATION	RESULTS
1	Appearance	White to yellowish powder or granule	Pass
2	Particle Size	90% pass 200 mesh	Pass
3	Lossing on Drying (105°C 4h), %	≤ 12.0	8.14
4	Viscosity (1.5%,75°C), mPa.s	≥ 5	42
5	Gel Strength (KCl), g/cm <sup>2</sup>	≥ 450	527
6	Total Ash (550°C 4h), %	15 - 40	19.25
7	pH (1%)	8.0 - 11.0	10.1
8	Total Sulphate, %	15 - 40	Pass
9	Acid-insoluble Ash, %	≤ 1.0	< 1.0
10	Arsenic(As), mg/kg	≤ 3.0	Pass
11	Lead(Pb), mg/kg	≤ 5.0	Pass
12	Cadmium(Cd), mg/kg	≤ 2.0	Pass
13	Mercury(Hg), mg/kg	≤ 1.0	Pass
14	Total Plate Count, CFU/g	≤ 5000	<1000
15	Yeast & Moulds, CFU/g	≤ 300	<100
16	E.Coli	Absent in 5 g	Pass
17	Salmonella	Absent in 10 g	Pass

Conclusion: Comply with the standard of E407 & GB 1886.169-2016  
Analyst: Ting Shen      Verification: Xueli Yang  
Date of analysis: 2023.09.03      Date of report: 2023.09.07

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.....WENJING GAO.....  
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