



CERTIFICATE OF ANALYSIS

Product:	Sodium Carboxymethyl Cellulose		
Lot number:	2024048(1800KG)		
Type:	Headcel 500HF	Date of Production:	Mar. 15, 2024
Analysis item	All Items	Date of Expiry:	Mar.15, 2026
Property	Specification	Test Result	
Physical form	White or cream colored powder	White or cream colored powder	
Purity (dry basis)	Min. 99.5%	99.6%	
PH(1% solution)	6.0-8.5	7.0	
Viscosity (Brookfield LVT, 1%.25℃, Dry Basis)	400 – 600 mPas	550 mPas	
Degree of substitution	0.7-0.9	0.84	
Partical Size	Min. 95% pass through 80 mesh	98% pass through 80 mesh	
Loss on drying	Max. 8%	7.5%	
Sodium chloride	Max.0.5%	0.2%	
Heavy metal	≤20ppm	Confirm	
Lead	≤3ppm	Confirm	
Arsenic	≤2ppm	Confirm	
Mercury	≤1ppm	Confirm	
Cadmium	≤1ppm	Confirm	
Total plate count	≤1000 cfu/g	90	
Yeast and mould	≤100 cfu/g	Absent	
Coliform	absent/g	Absent	
Salmonella	absent/g	Absent	
Conclusion:	The product was determined to meet Headcel 500HF USP38 performance requirement. 山东赫达集团股份有限公司		

Analyse by: Mary Jin

Auditing by: Cindy Bee

山东赫达集团股份有限公司
Shandong Head Group Co., Ltd

李东

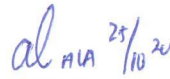
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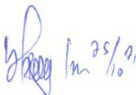
STANDARISASI CERTIFICATE OF ANALYSIS BAHAN BAKU

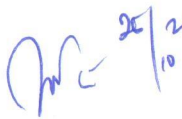
No	Nama Bahan	Manufaktur	Referensi pada CoA Manufacturer saat ini	Referensi pada CoA yang diusulkan	Penyesuaian Parameter			Nomor SPBB	Keterangan
					Parameter yang Dihilangkan	Parameter yang Ditambah	Parameter yang direvisi		
1	Sodium CMC	Shandong Head Group	Usp 38	USP 47/ F.I.VI	Lead	Kelarutan disesuaikan dengan USP 47	Pemerian disesuaikan dengan USP 47	RD.02-SBP/079.03	Penyesuaian CoA dari Manufacturer
					Arsenic	Identifikasi disesuaikan dengan USP 47	Penetapan kekentalan disesuaikan dengan USP 47		
					Mercury	-	pH : 6.5 - 8.5 (USP 47)		
					Cadmium		LOD : ≤ 10.0 % (USP 47)		
					Degree of substitution		Penetapan kadar : 6.5% - 9.5% Na, dihitung terhadap zat yang telah dikeringkan. (USP 47)		
					Chloride		-		
					Identifikasi D (Nanoram)	Cemaran Mikrobiologi	-		Update SPBB

Diperiksa Oleh,

Disetujui Oleh,


Koordinator QC


Koordinator TS


Koordinator QA


Manager QA