



DURACOAT[®]

Pharmaceutical Hydroxy Propyl Methyl cellulose

CP/IP/JP/EP/BP/USP

Pharmaceutical Hydroxy Propyl Methyl cellulose

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it is used in tablets for dressing and binding to improve solubility for the drugs and reinforce tablets's water prevention function. it can also be utilized as mixed suspending agent, additive for eye drops, sustained-release agent.

* Quality standard: conform with CP/IP/JP/EP/BP/USP

Type	Appearance	Viscosity (Cps)	Methoxy (%)	Hydroxypropoxy (%)	Moisture (%)	Residue (%)	PH	Heavy metals (ppm)	Arseric (ppm)	Microbe count	Particle size
DURACOAT® E-3	White powder	3	28-30	7-12	<5%	<1.5%	5.0-8.0	<20ppm	<2ppm	1,000 CFU/g	90%,100mesh
DURACOAT® E-5		5									
DURACOAT® E-6		6									
DURACOAT® E-15		15									
DURACOAT® E-50		50									
DURACOAT® E-40Y		4,000	19-24	4-12							
DURACOAT® K-40Y		4,000									
DURACOAT® K-15Z		15,000									
DURACOAT® K-100Z		100,000									

DURACOAT®

Application Guide



DURACOAT® hydroxypropyl methylcellulose (HPMC) is a water-soluble cellulosic polymer that can help optimize solubility enhancement of poorly soluble drugs by maintaining stable solid dispersions and inhibiting API crystallization.

More sophisticated drug discovery techniques have led to pipeline compounds that require solubility enhancement to be therapeutically effective.

Solid dispersions are one of the key technologies for formulating oral solid dosage forms containing APIs with bioavailability challenges.

DURACOAT® has been specifically designed for generating solid dispersions via spray-drying (SDD) or hot melt extrusion (HME) in the pharmaceutical industry.

Type	DURACOAT® APPLICATION				
	Film coating	Controlled Release agent	Granulation Binder	Capsule Manufacturing	Thickening Suspending agents
DURACOAT® E-3					
DURACOAT® E-5	✓		✓	✓	
DURACOAT® E-6	✓		✓	✓	
DURACOAT® E-15	✓		✓		
DURACOAT® E-50			✓		
DURACOAT® E-40Y					✓
DURACOAT® K-40Y		✓			✓
DURACOAT® K-15Z		✓			✓
DURACOAT® K-100Z		✓			✓



DURACOAT® CERTIFICATION



삼성화재

SAMSUNG



the way to trust **KCL**

4429-2017-4006-9032

TEST REPORT

1. NO : CT22-058956E

2. Client

○ Name : DK Finechemical Co., Ltd.

○ Address : 102-212, 11, Wonhyo-ro 90-gil, Yongsan-gu, Seoul, Republic of Korea

3. Date of Test : 2022.06.17 ~ 2022.06.24

4. Use of Report : Submission

5. Test Sample : Duracoat®

6. Test Method

(1) The test was applied correspondingly to regulation on the safety standards of cosmetics and others

KCL

Affirmation	Tested By	Technical Manager
	Name : Kim Youngbum	Name : Woo Jong Sim

1. Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified.

2. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.

3. The results of using only a portion of this report cannot be guaranteed.

4. The authenticity of this test report can be checked on KCL website(www.kcl.co.kr)

5. This Test Report is not based on the [Act on Testing and Inspection of Food and Drugs], and does not have any legal effect with regard to such Act.

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TEST REPORT

No : CT22-058956E

7. Test Results

1) Duracoat®

Test Item(s)	Unit	Test Method	Test Results	Remark
Lead(Pb)	μg/g	(1)	Not detected (Detection limit 1.2)	-
Arsenic(As)	μg/g	(1)	Not detected (Detection limit 1)	-
Antimony(Sb)	μg/g	(1)	Not detected (Detection limit 1.2)	-
Cadmium(Cd)	μg/g	(1)	Not detected (Detection limit 1)	-
Nickel(Ni)	μg/g	(1)	Not detected (Detection limit 1.2)	-
Mercury(Hg)	μg/g	(1)	Not detected (Detection limit 0.01)	-
Butylbenzyl phthalate	μg/g	(1)	Not detected (Detection limit 1)	-
Dibutyl phthalate	μg/g	(1)	Not detected (Detection limit 1)	-
Diethylhexyl phthalate	μg/g	(1)	Not detected (Detection limit 1)	-
Formaldehyde	μg/g	(1)	Not detected (Detection limit 1.5)	-
Dioxane	μg/g	(1)	Not detected (Detection limit 1)	-

— End of Report —

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Converged Management Certification

Rm 212, #11, Wonhyo-ro 90-gil, Yongsan-gu, Seoul, Korea

This is to certify that quality management system of the company meets the requirements of

ISO 9001 : 2015

Development and Manufacture of Chemical Products as Cellulose Ether and Chemical Additives

Certification Number : CQ-1380
Date of Initial Approval : 21 Feb 2022
Expiry : 20 Feb 2025

Approval : *C.H. Lee*

This certificate is valid only if regulatory surveillance audit is conducted within the required time.

Converged Management Certification Co., Ltd.
#B, Seohodong-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
T) +82-70-4366-1732 F) +82-70-8677-1732
http://www.cmc914.com

This certificate can be searched at IAF website:
https://www.iafcertsearch.org/

cmc
converged management certification

2022111531

CERTIFICATE OF AUTHORIZATION

The Korea Industrial Technology Association, the certifying agency authorized by the Ministry of Science and ICT of the Republic of Korea, hereby certifies the

DK FINECHEMICAL CELLULOSE R&D CENTER
of
DK Finechemical Co.,Ltd.

located at
102-212, 11, Wonhyo-ro 90-gil, Yongsan-gu, Seoul, Republic of Korea

as an
Industrial R&D Center
as of 24th March 2022

pursuant to the Basic Research Promotion and Technology Development Support Act of the Republic of Korea.

Ma, Changwhan
Changwhan Ma
Executive Deputy Chairman
Korea Industrial Technology Association(KOITA)

koita
KOREA INDUSTRIAL TECHNOLOGY ASSOCIATION

Converged Management Certification

CERTIFICATE OF MANAGEMENT SYSTEM

DK FINE CHEMICAL CO., LTD.

Rm 212, #11, Wonhyo-ro 90-gil, Yongsan-gu, Seoul, Korea

This is to certify that environment management system of the above mentioned company meets the requirements of

ISO 14001 : 2015

Development and Manufacture of Chemical Products such as Cellulose Ether and Chemical Additives

Certification Number : CE-2231
Date of Initial Approval : 21 Feb 2022
Expiry : 20 Feb 2025

Approval : *C.H. Lee*

This certificate is valid only if regulatory surveillance audit is conducted within the required time.

Converged Management Certification Co., Ltd.
#B, Seohodong-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
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http://www.cmc914.com

This certificate can be searched at IAF website:
https://www.iafcertsearch.org/

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IAS
ACCREDITED

IAF
INTERNATIONAL ASSOCIATION OF CERTIFICATION BODIES

한국무역협회 Korea International Trade Association
서울시 강남구 무역센터 트레이드 타워, Trade Tower, World Trade Center, Gangnam-gu, Seoul 135-729, Korea
TEL:1566-5114, http://www.kita.net

Certificate of Membership

Feb. 25, 2022

IT IS HEREBY CERTIFIED THAT THE UNDERMENTIONED COMPANY IS A MEMBER OF THE KOREA INTERNATIONAL TRADE ASSOCIATION(KITA) IN ACCORDANCE WITH SECTION 6 OF THE KITA ARTICLES OF INCORPORATION.

REGISTRATION NO. : 10167687

COMPANY NAME : DK FINECHEMICAL CO., LTD.

REPRESENTATIVE : LEE HANVIT

ADDRESS : #D-1818 11, Wonhyo-ro 90-gil, Yongsan-gu, Seoul, 04315, Republic of Korea

KITA

ISSUE NO: 20220225-26000-002-0002659464

Christopher Koo
CHAIRMAN & CEO
KOREA INTERNATIONAL TRADE ASSOCIATION

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KITA



Korea Trade-Investment Promotion Agency

DURACOAT® PACKING STANDARD



Packing
standard



Appearance

white powder

Packing standard

25kg can packing with inside
polyethylene woven bag

DKPHARM-ST-20

Type	Export Pallet	Max load Qty(EA/kg)
20 FT FCL	X	10,000kg / 400EA ✓
20 FT FCL	O	6,000/240EA
40FT FCL	X	20,000kg / 800EA ✓
40FT FCL	O	12,000kg, 480EA



Cellulose Solution



EST 2008

dkfinechem.com

dkfinechem.co.kr