

NOTES

Review MATERIAL SAFETY DATA SHEET (MSDS) before using ADEKA products.
 The data containing in this brochure are based on specific method and typical analysis.
 The data containing in this brochure may be changed without notice.
 The application and the data in this brochure do not warrant final function of your application.
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 ※Please ask our R&D or sales section for more detail.

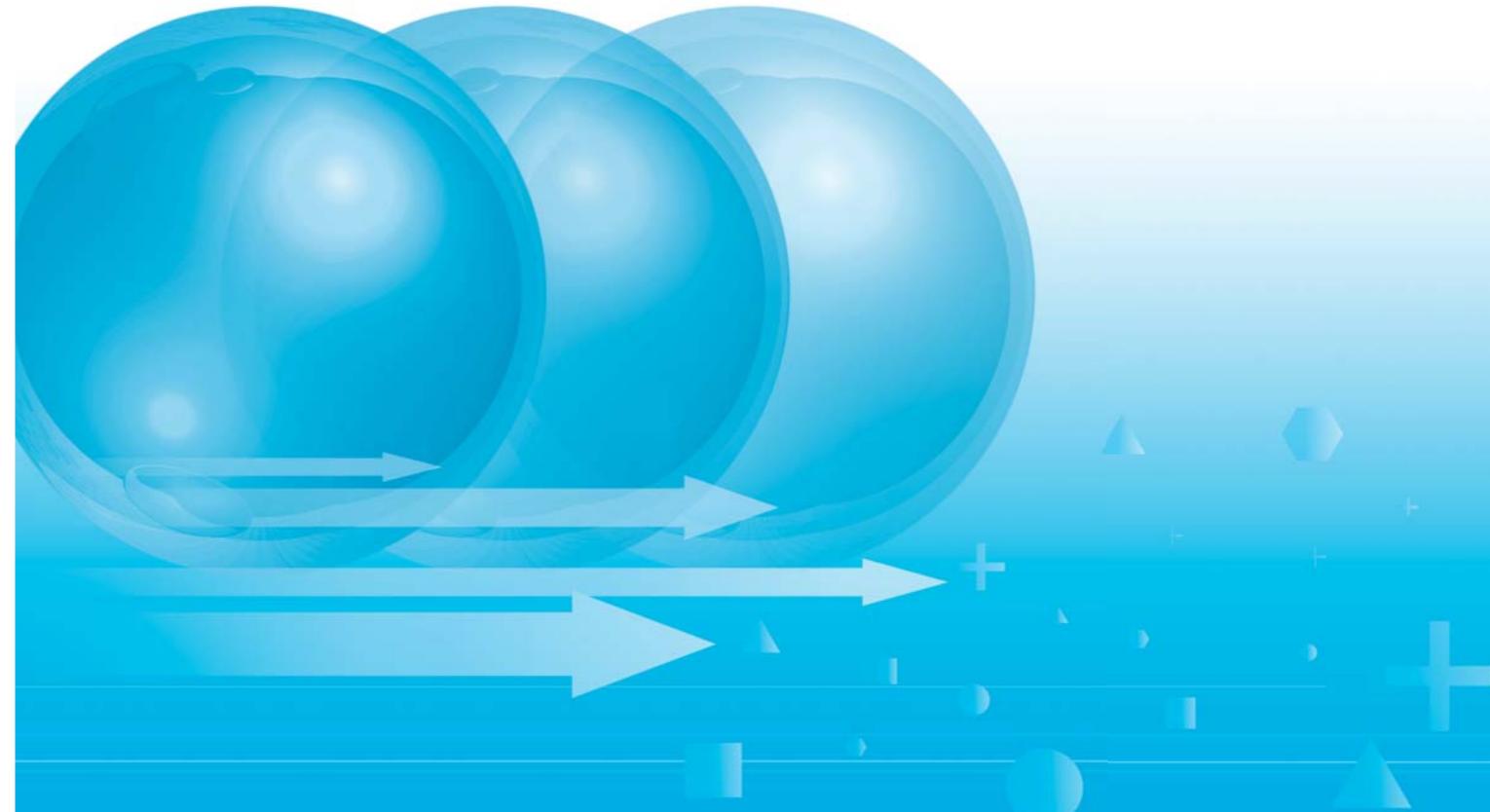
致使用ADEKA产品的客户

根据ADEKA产品的使用说明。为了防止化学物质发生反应的事故，必须严格按照ADEKA提供的产品安全资料（MSDS）来使用。
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 「ADEKA LUMINACARE」在韩国国内没有作为商标使用；



Cosmetic Materials

化妆品材料



ADEKA CORPORATION

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COSMETIC MATERIALS

化妆品材料

ADEKA has large variety of cosmetic materials from generic materials such as PROPYLENE GLYCOL, DIPROPYLENE GLYCOL to functional materials such as thickening agents, booster of cosmetic preservation, conditioning agents, and functional moisturizer which developed by advanced technology of fermentation and cultivation.

我司的化妆品材料，有以丙二醇和二丙二醇等的泛用原料，开发的增粘剂，保湿静菌剂，调整剂等的机能性材料，另外，还有应用发酵・培养技术开发的机能性保湿剂等一系列齐备的产品；

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1 Waterborne gelator 水性凝胶化剂

ADEKA NOL GT-700

■ Characteristics 特征

It associates with water molecule and shows thickening effect by forming water gel. The gel is a high elasticity but can also spray. As it is nonionic polymer, it has excellent salt and pH resistance.

形成具有高弹力并优越的喷子喷出性的凝胶 因为是非离子型聚合物，所以具有优越的耐盐性，耐pH性

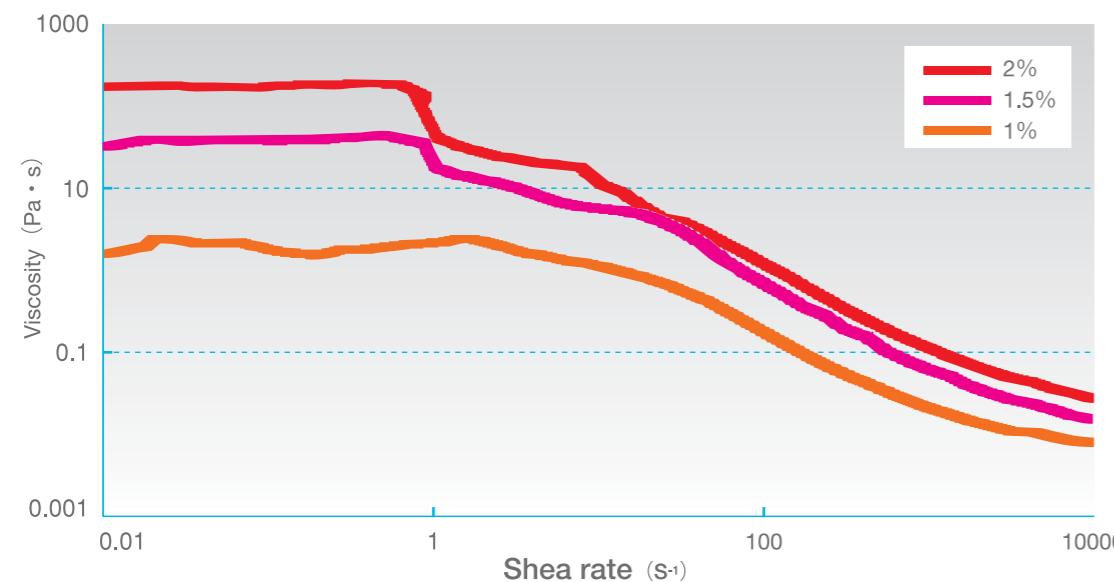


Appearance	Active	Packing
White or light yellow solid	100%	20kg / Bag

■ Rheological property 水溶液的流变特性

Aqueous solution exhibits a thixotropic Viscosity increases from 1% and it forms elastic gel at 2%

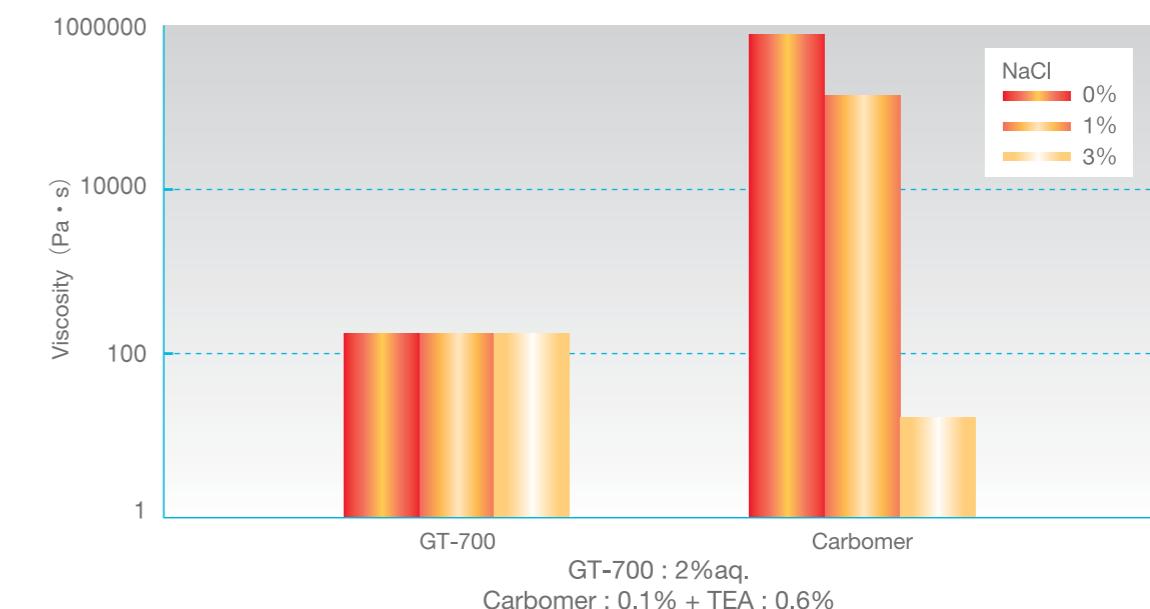
水溶液显示出触变性, 1%添加量开始增粘, 2%时形成具有弹力的凝胶



■ Salt resistance 耐盐性

It has excellent salt and pH resistance

对盐分和pH具有优越耐受性



■ Preparation of the gel emulsion 乳液状凝胶的调制

By dispersing the oil in the aqueous gel, you can prepare an emulsion gel.

根据凝胶和油的混合, 可以调制成乳液状的凝胶;

• With isopropyl myristate 肉豆蔻酸异丙酯乳化凝胶



Mixed with 20 parts of oil and 80 parts of GT-700 2%aq. , and the mixture was stirred for 5 minutes at 10000rpm homomixer at 25°C.

ADEKA NOL GT-700 2%水溶液80份和各种油分20份混合, 使用均质搅拌机保持常温, 10000rpm搅拌5分钟

2 Highly functional moisturizer 高机能保湿剂

ADEKA LUMINACARE B Series

ADEKA LUMINACARE B has high water retentivity, as well as many other useful features. It is known as a functional component of mushrooms and yeast, and widely applied as cosmetics and food ingredients.

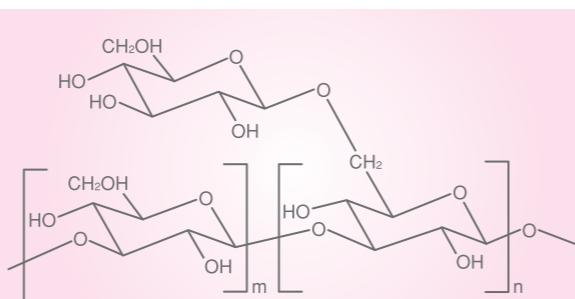
黑酵母 (*Aureobasidium pullulans*) 的培养液中提炼、精制而成，具有高保湿性和清爽使用感。另外，作为菌类和酵母的有效成分而被熟知，也被有效地利用于化妆品和食品原材料中。主要成分是 β -1,3-1,6-葡聚糖。

Product Name	Appearance	Beta-Glucan	INCI Name
BLQ	White to clear liquid	β 1,3-1,6-Glucan Over 1.0%	AUREOBASIDIUM PULLULANS FERMENT
BLQ-S	White to clear liquid	β 1,3-1,6-Glucan Over 0.8%	AUREOBASIDIUM PULLULANS FERMENT
			PHENOXYETHANOL
			ETHYLHEXYLGLYCERINE
BP	White powder	β 1,3-1,6-Glucan Over 85.0%	BETA-GULUCAN

■ Style of Package 产品包装

- ADEKA LUMINACARE BLQ 10kg
- ADEKA LUMINACARE BLQ-S 1kg / 10kg
- ADEKA LUMINACARE BP 100g / 500g

■ Structural Formula 结构式



■ Uses 用途

Can be applied as a humectant and in cosmetics (basic skin care products, hair care products, sunscreens).

美容液、乳液、乳霜等护肤化妆品中作为保湿剂、触感改良剂而被应用调配于配方中

■ Recommended usage 推荐添加量

0.1%~0.3% (ADEKA LUMINACARE BP)

■ ECOCERT Certified ECOCERT被证明了

ADEKA LUMINACARE B series is a cosmetic raw materials certified by international organic Certification Authority ECOCERT based in France.

*Object product: ADEKA LUMINACARE BLQ, BP

获得法国的国际有机认证机构 ECOCERT的认证的有机化妆品材料。

*对象产品：ADEKA LUMINACARE BLQ, BP



■ Functionality Assessment 机能性评价

• Water Retentivity 保湿力评价

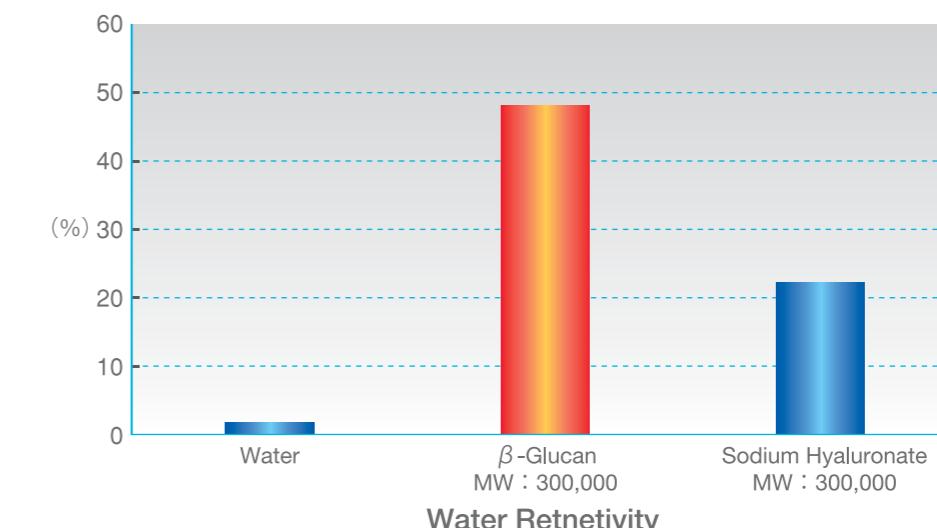
experiment method 实验法

It adds 1 mL of 2% of each sample at a time in filter paper, respectively, and leaves at rest in a homioothermal constant humidity tub. was computed from change of the weight.

将各试料的2%水溶液各自添加1ml到滤纸，静置于恒温恒湿槽。

Incubate : 22 °C, 50% of humidity

培 育：22°C、湿度50%

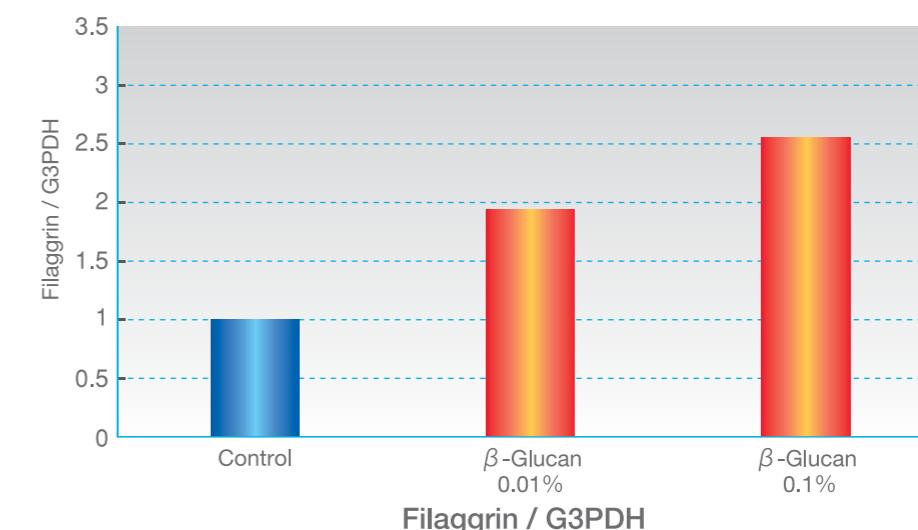


Result : ADEKA LUMINACARE B series has a Water Retentivity of 2 times compared to hyaluronic acid (molecular weight 300000).
结果：与同分子量的透明质酸Hyaluronic acid相比具有2倍的保湿力。(我司实验)

• Accelerated Production of Natural Moisturizing Factor

NMF (Natural Moisturizing Factor: natural moisturizing factor) is the component that holds the moisture present in the stratum corneum. ADEKA LUMINACARE B series on skin not only keeps the surface moist, but it may also affect the skin to promote its ability to retain moisture.

NMF (Natural Moisturizing Factor: 天然保湿因子) 是保持角质层细胞内水分的成分。ADEKA LUMINACARE B series (β -glucan) 通过促进增殖丝聚合蛋白 (Filaggrin) 等NMF的原料起到抑制皮肤的粗糙，被期待为保持湿润和光滑的作用的成分；



ADEKA LUMINACARE MV Series

ADEKA LUMINACARE MVL/MVA is produced by extraction and purification from *Saccaromyces fiburigera* yeast culture, and major component is R(-)-mevalonolactone. It can be applied as a humectant in cosmetics (basic skin care products, hair care products, sunscreens) and can be used as a precursor for isoprenoids.

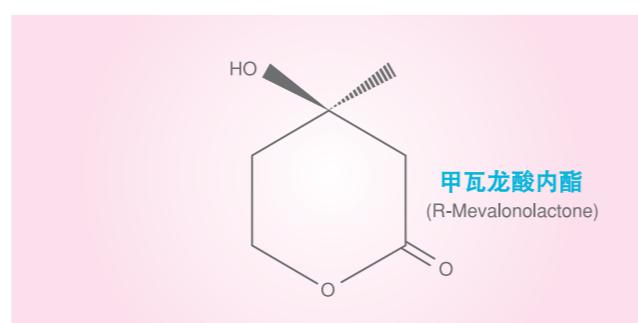
甲瓦龙酸内酯 (Mevalonolactone) 能恢复角质层的胆固醇 ((cholesterol)合成能力, 强化保护机能; ADEKA LUMINACARE MV系列是扣囊复膜酵母 (*Saccaromyces fiburigera*) 由来的光学程度100%的天然型甲瓦龙酸内酯

Product Name	Appearance	Mevalono lactone	INCI Name
MVL	Light yellow to pale brown clear viscous liquid	Over 97.0%	MEVALONOLACTONE PHENOXYETHANOL
MVA		Over 97.0%	MEVALONOLACTONE

■ Style of Package 产品包装

- ADEKA LUMINACARE MVL 1kg / 100g
- ADEKA LUMINACARE MVA 1kg / 100g

■ Structural Formula 结构式



■ Uses 用途

Can be applied as a humectant in cosmetics (basic skin care products, hair care products, sunscreens).

化妆水, 美容液, 乳液, 乳霜等的护肤化妆品中作为机能性素材调配于配方中

■ Recommended usage 推荐添加量

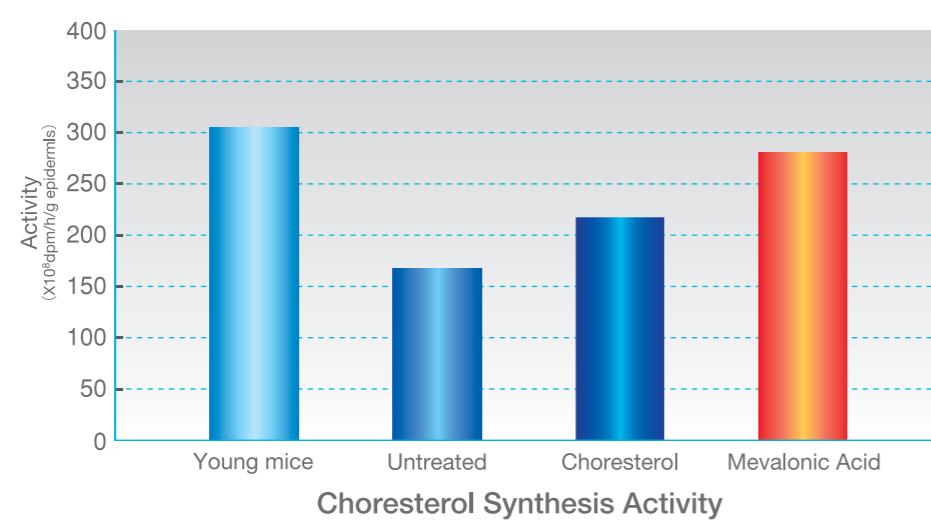
0.05%~1%

■ Functionality Assessment 机能性评价

• Activation of Cholesterol Synthesis by Mevalonic Acid 胆固醇合成能力的活性化

Mevalonic acid activates the synthesis of cholesterol decreased by aging

甲瓦龙酸内酯具有提高激活因老化而低下的胆固醇合成能力。



J. Invest. Dermatol. 114

• Wrinkle Improvement 皱纹改善效果

Subject : 20 healthy females (age 20-60 old).
Test Sample : ADEKA LUMINACARE MVL 0.05% Cream (A) Placebo cream (B)
Test Method : Application half face after washing your face twice a day
(during the study period, prohibit the use of other cosmetics)
Test Period : 8 weeks
Evaluation Methods : Compare the depth of wrinkles using the Skin Vissiometer. (Skin - Vissiometer SV 600, Germany)

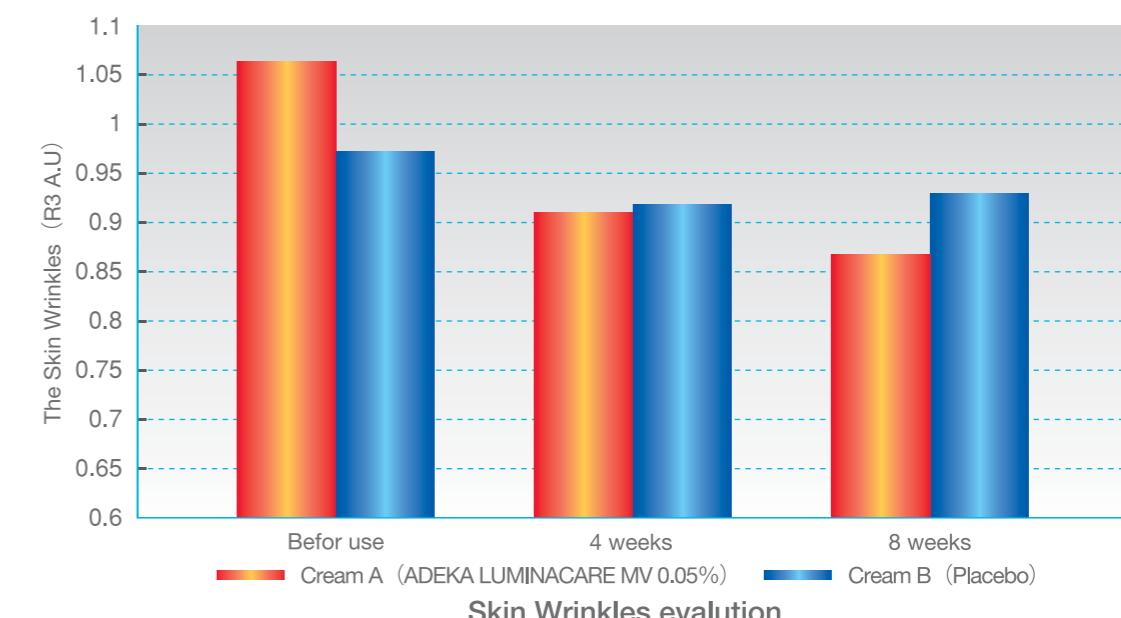
被 验 者 : 20 岁 ~60 岁的健康正常人 24 名(敏感肌肤 · 特应性皮肤炎患者除外)

实验样品 : ADEKA LUMINACARE MVL 0.05% 乳霜(A) 对照乳霜 Placebo cream (B)

涂布条件 : 1 日 2 次 洗脸后 涂擦半面(实验期间, 禁止使用其他的化妆品)

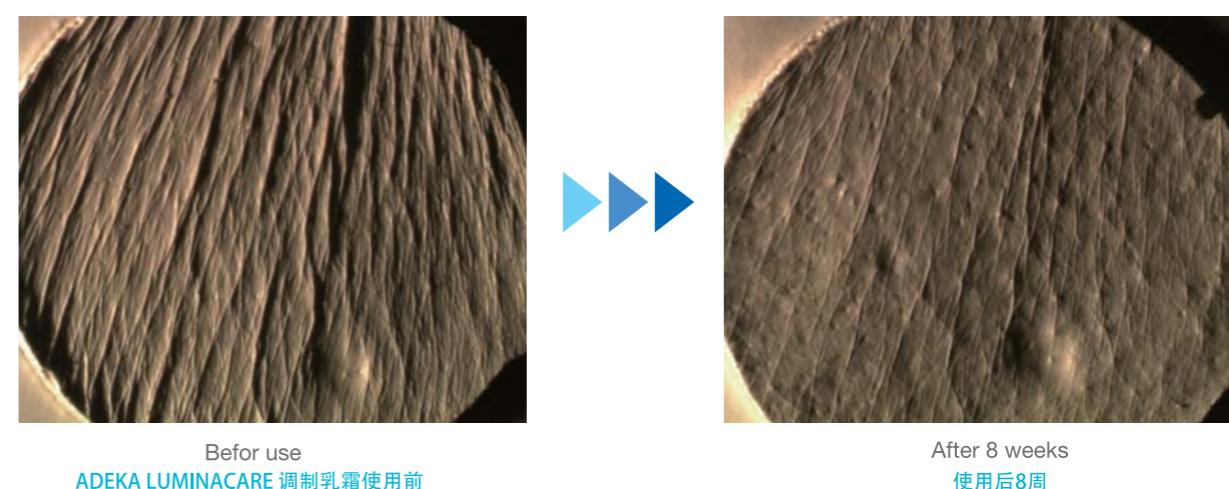
实验周期 : 4 周

评价方法 : 使用 Skin Vissiometer (Skin-Vissiometer SV 600,Germany) 对皱纹的深度进行比较



ADEKA LUMINACARE MVL-containing cream was found to improve wrinkles compared to Baseline (before use)

同 Baseline(使用前)比较, 对照乳霜的使用对改善皱纹没有明显作用, 但是 ADEKA LUMINACARE MVL 配制乳霜可以确认有明显的皱纹改善。



ADEKA NOL OG

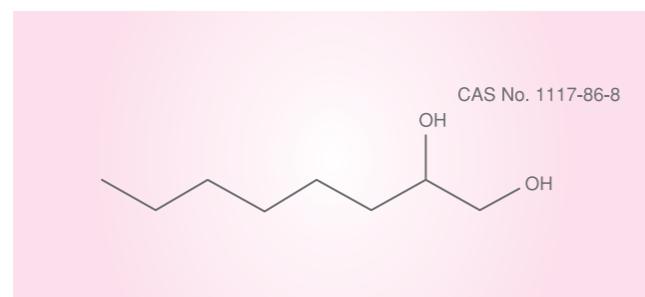
■ Characteristics 特征

ADEKA NOL OG is 1,2-Octanediol. It shows excellent antibacterial properties to fungi and bacteria, enabling the preservative-free cosmetic preparations.

碳氢链端1,2位有氢氧基的乙二醇化合物；对各种真菌，细菌类具有抗菌性，使化妆品制剂无防腐剂化成为可能；

Appearance	Purity	INCI Name	Packing
Clear liquid or white solid	Over 98.0%	CAPRYLYL GLYCOL	16kg / CAN 180kg / Drum

■ Structural formula 结构式



■ Physical property 物性值

Melting point : 33°C Freezing point : 15°C

Solubility

Water	0.30%	Propylene glycol	>50%	Butylene glycol	>50%
Castor oil	>50%		10%aq.		0.30%
Soybean oil	>50%		30%aq.		9.0%
PEG-4(#200)	>50%	Dipropylene glycol		Glycerine	>50%
Squalane	3.0%		>50%		10%aq.
Paraffin	insoluble		10%aq.		0.60%
			30%aq.		0.40%

■ Antibacterial activity 抗菌性

Minimum inhibitory concentrations (MIC[ppm]) 最小发育阻止浓度

	OG	Methylparaben	Phenoxyethanol
<i>B. subtilis</i>	2560	2560	10000
<i>E. coli</i>	2560	1280	5000
<i>P. aeruginosa</i>	5120	2560	5000
<i>S. aureus</i>	5120	2560	10000
<i>C. albicans</i>	>2000	>2000	4000
<i>Z. rouxii</i>	2000	2000	4000
<i>A. brasiliensis</i>	2000	1000	4000

3 Highly functional surface active agents 机能性表面活性剂

ADEKA CARPOL MD-100

■ Characteristics 特征

It is used to neutralize acid substance. (For example, fatty acid, inorganic acid and organic acid)

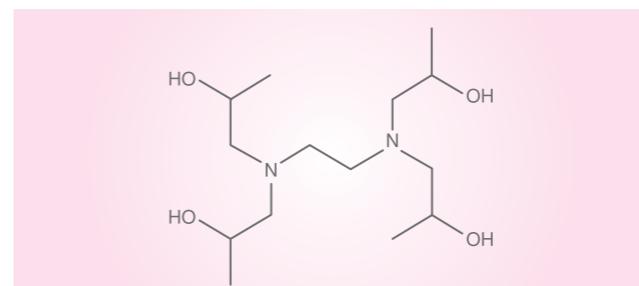
可使用于脂肪酸，无机酸，有机酸等的中和，PH的调整

Compare to the triethanolamine(TEA), MD-100 enables to prepare the soap which is better flowability and color stability.

同三乙醇胺 (triethanol amine TEA)相比，流动性更好，可以调制出色度稳定性更好的肥皂。

Appearance	Active	INCI Name	Packing
Clear liquid	100%	TETRAHYDROXYPROPYL ETHYLENE DIAMINE	18kg / CAN

■ Structural formula 结构式



C₁₄H₃₂N₂O₄ MW242

The molecular weight for an amine is 121,because there are two amines in the molecule,

分子中有两个胺，1个胺的分子量是121；
参考 Reference)TEA 分子量 MW 107

■ Liquidity of soap 流动性的肥皂

MD-100 can be prepared the soap which is better flowability than that of triethanolamine

用 MD-100 中和脂肪酸, 形成比用 TEA 中和物具有更好的流动性的肥皂；

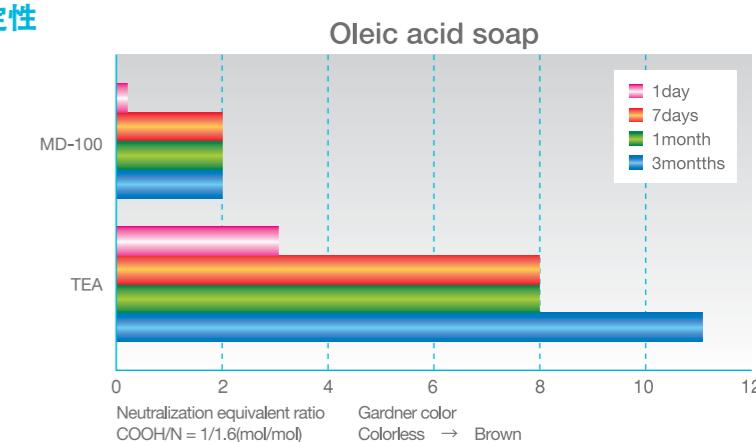
	MD-100	TEA
Stearic acid	Pasty colorless 无色稠装	White solid 白色固体
Oleic acid	Pale yellow liquid 淡黄色液状	Pasty red 红色稠状
Palmitin acid	Pale yellow liquid 淡黄色液状	White solid 白色固体
Myristic acid	Pale yellow liquid 淡黄色液状	White solid 白色固体
Lauric acid	Pale yellow liquid 淡黄色液状	White solid 白色固体

Neutralization equivalent ratio COOH/N = 1/1.6(mol/mol)
中和等量比

■ Color stability of soap 肥皂的色度稳定性

MD-100 can be prepared the soap which is better stability of color than that of triethanolamine.

同 TEA 肥皂相比, 具有更好的色度稳定性;

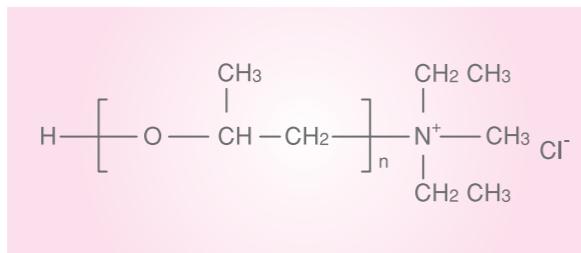


ADEKA COL CC series

■ Characteristics 特征

ADEKA COL CC series are clear fluid quaternary ammonium type cationic surfactants with polyoxypropyl as lipophilic group. Anionic surfactant such as alkylethersulfonate salt solves into each other in a wide ratio. There is an effect of the flowability improvement of mixing system (especially, the low temperature). When using cationic surfactant / anionic surfactant together, there is excellent effect of the stimulation decrease because it reduces the protein degeneration rate.

疏水基是PPG链的阳离子表面活性剂。同烷基醚硫酸盐等的阴离子表面活性剂广泛比例相溶；提高配方的低温流动性；缓和蛋白变性作用；



Product Name	Appearance	Active	INCI Name	Packing
CC-36	Clear liquid	100%	PPG-25 DIETHYLMONIUM CHLORIDE	20kg / Can 200kg / Drum
CC-42			PPG-40 DIETHYLMONIUM CHLORIDE	

■ Soothing effect on protein denaturation rate

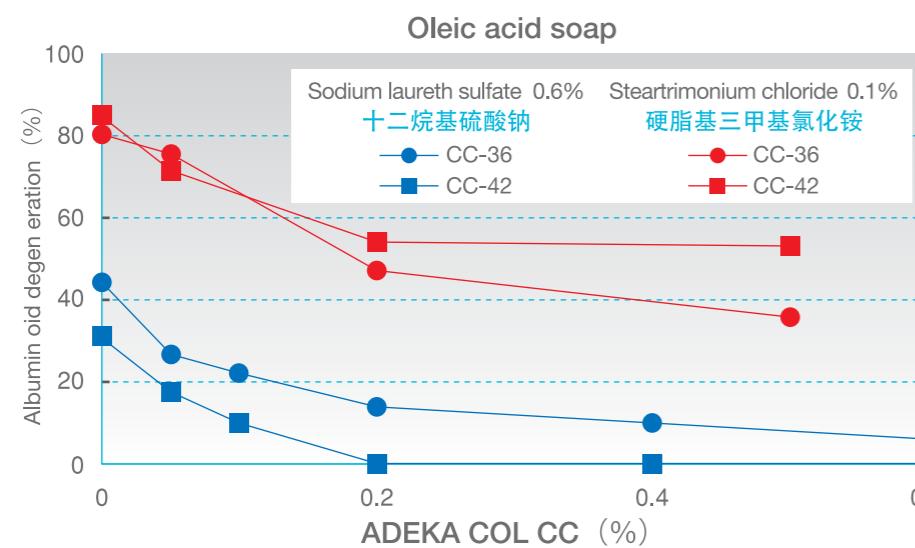
根据同表面活性剂的并用具有的蛋白变性缓和作用

It has the effect of mitigating the protein degeneration by surfactants.

根据不同表面活性剂而具有蛋白变性缓和作用；

It has excellent cold flow improver action of liquid detergent, such as dishwashing detergent or shampoo.

具有很好的提高洗发剂，厨房洗涤剂等液体洗净剂的低温流动性的作用；

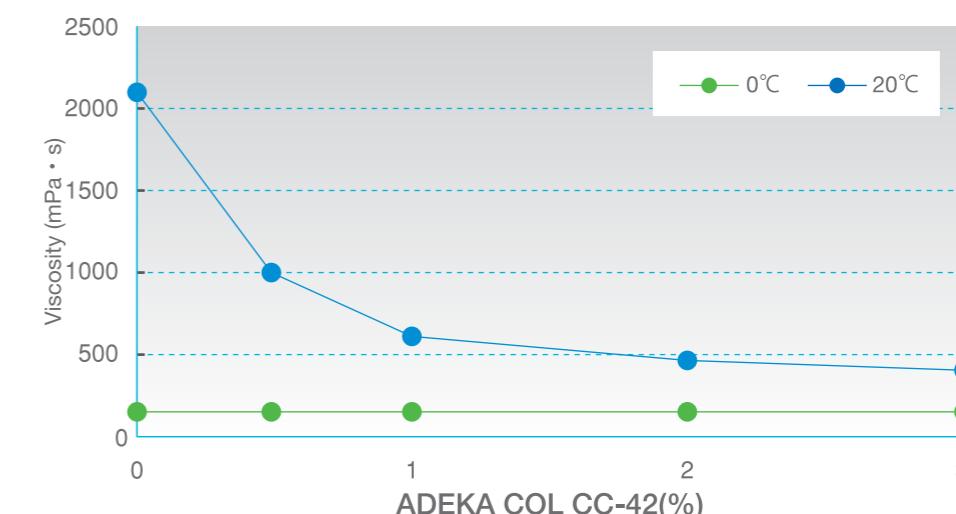


Mixed 9:1 mixture 0.025% egg albumin solution and surfactant with CC, we have measured the rate of modification of protein using HPLC after storage for 24 hours.

0.025%卵白（albumen）液，同表面活性剂和ADEKA COL CC混合液按照9:1的比例混合，使用HPLC测定24小时保存后的蛋白变性率；

■ Viscosity change in dishwashing detergent

根据厨房洗涤剂配方的粘度变化



• dishwashing detergent formulations

厨房洗涤剂配方

Sodium laureth sulfate : 18%
十二烷基硫酸钠

Laureth-8 : 7%
月桂醇聚醚- 8

Cocamide DEA : 5%
椰子酰胺

Ethanol : 8%
乙醇

Water : 62%
水

CC-42 is added to dishwashing detergent formulations, and measured the viscosity.

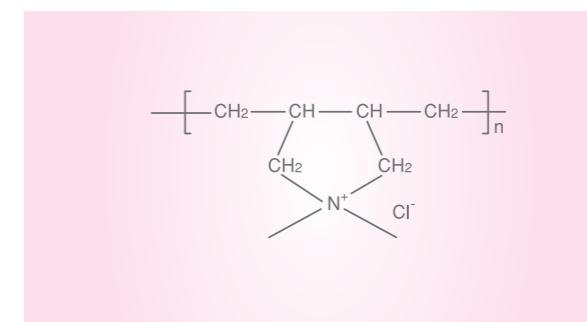
厨房用洗涤剂配方中添加ADEKA CAOL CC-42，测定粘度；

ADEKA CATIOACE PD-50

ADEKA CATIOACE PD-50 is a cationic polymer with good antistatic effect and softness effect.

具有良好的带电防止效果・柔软效果的高度阳离子化聚合物

Appearance	Active	INCI Name	Packing
Clear liquid	40%(aqueous solution)	POLYQUATERNIUM-6	18kg / CAN



4 Moisturizer 保湿成分

PG, DPG

ADEKA was the first company in Japan to produce propylene glycols. They are also used in prescription medications, cosmetics and within the food industry as food additives.

丙二醇是环氧丙烷通过水合作用得到的本公司国内首次的工业化产品。丙二醇是无色并且基本没有气味的液体，具有比水重和粘稠，沸点高，凝点低的性质；作为处方可应用于医药，化妆品还有食品工业等的广泛用途；

Product Name (CAS No.)	Appearance	Functions	INCI Name	Packing
PROPYLENE GLYCOL (57-55-6)	Clear liquid	Moisture Low odor	PROPYLENE GLYCOL	18kg / Can 200kg / Drum
DPG-RF (25265-71-8)	Clear liquid	Moisture Low odor	DIPROPYLENE GLYCOL	18kg / Can 200kg / Drum

5 Product List 产品一览

Product / INCI name LIST

	Product Name	INCI Name	中文名称
Nonionic surfactants	ADEKA TOL LA-375	LAURETH-3	月桂醇聚醚-3
	ADEKA TOL LA-775	LAURETH-7	月桂醇聚醚-7
	ADEKA TOL LA-875	LAURETH-8	月桂醇聚醚-8
	ADEKA TOL LA-975	LAURETH-9	月桂醇聚醚-9
	ADEKA TOL LA-1275	LAURETH-12	月桂醇聚醚-12
	ADEKA TOL LB-93	PPG-3-LAURETH-9	PPG-3-月桂醇聚醚-9
	ADEKA TOL TN-80	TRIDECETH-8	十三烷醇聚醚-8
	ADEKA TOL TN-100	TRIDECETH-10	十三烷醇聚醚-10
	ADEKA TOL SO-80	C12-14 SEC-PARETH-3	C12-14 仲链烷醇聚醚-3
	ADEKA TOL SO-105	C12-14 SEC-PARETH-5	C12-14 仲链烷醇聚醚-5
	ADEKA TOL SO-120	C12-14 SEC-PARETH-7	C12-14 仲链烷醇聚醚-7
	ADEKA TOL SO-135	C12-14 SEC-PARETH-9	C12-14 仲链烷醇聚醚-9
	ADEKA TOL SO-145	C12-14 SEC-PARETH-12	C12-14 仲链烷醇聚醚-12
	ADEKA TOL OA-7	OLETH-7	油醇聚醚-7
	ADEKA NOL L-31	POLOXAMER 101	泊洛沙姆 101
	ADEKA NOL L-44	POLOXAMER 124	泊洛沙姆 124
	ADEKA NOL L-61	PEG/PPG-5/30 COPOLYMER POLOXAMER 181	PEG/PPG-5/30 共聚物 泊洛沙姆 181
	ADEKA NOL L-64	PEG/PPG-25/30 COPOLYMER POLOXAMER 184	PEG/PPG-25/30 共聚物 泊洛沙姆 184
	ADEKA NOL L-72	POLOXAMER 212	泊洛沙姆 212
	ADEKA NOL L-101	POLOXAMER 331	泊洛沙姆 331
	ADEKA NOL P-84	POLOXAMER 234	泊洛沙姆 234
	ADEKA NOL P-85	POLOXAMER 235	泊洛沙姆 235

	Product Name	INCI Name	中文名称
Nonionic surfactants	ADEKA NOL P-103	POLOXAMER 333	泊洛沙姆 333
	ADEKA NOL F-68	PEG/PPG-150/30 COPOLYMER POLOXAMER 188	PEG/PPG-150/30 共聚物 泊洛沙姆 188
	ADEKA NOL F-88	POLOXAMER 238	泊洛沙姆 238
	ADEKA NOL F-108	PEG / PPG-300 / 55 COPOLYMER POLOXAMER 338	PEG/PPG-300/55 共聚物 泊洛沙姆 338
	ADEKA NOL TR-701	POLOXAMINE 701	泊洛沙胺 701
	ADEKA NOL TR-702	POLOXAMINE 702	泊洛沙胺 702
	ADEKA NOL TR-704	POLOXAMINE 704	泊洛沙胺 704
	ADEKA ESTOL S-60	SORBITAN STEARATE	山梨坦硬脂酸酯
	ADEKA ESTOL S-80	SORBITAN OLEATE	山梨坦油酸酯
	ADEKA ESTOL T-82	POLYSORBATE 80	聚山梨醇酯-80
	ADEKA ESTOL OEG-102	PEG-5 OLEATE	PEG-5 油酸酯
	ADEKA ESTOL OEG-106	PEG-14 OLEATE	PEG-14 油酸酯
	ADEKA SOL CO	COCAMIDE DEA DIETHANOLAMINE	二乙醇胺 椰油酰胺 DEA
	ADEKA SOL COA	COCAMIDE DEA	椰油酰胺 DEA
Amphoteric surfactants	ADEKA AMPHOTHE PB-30L	LAURAMIDOPROPYL BETAINE	月桂酰胺丙基甜菜碱
	ADEKA AMPHOTHE AB-35L	LAURYL BETAINE	月桂基甜菜碱
Anionic surfactants	ADEKA HOPE MS-30C	SODIUM LAURETH SULFATE	月桂醇聚醚硫酸酯钠
	ADEKA HOPE YES-25	SODIUM MYRISTYL SULFATE	肉豆蔻醇硫酸酯钠
	ADEKA COL EC-8600	DIETHYLHEXYL SODIUM SULFOSUCCINATE	磺基琥珀酸二乙基己酯钠
	ADEKA NOL AP-1240E	SODIUM LAUROYL HYDROLYZED COLLAGEN	月桂酰水解胶原钠
Cationic Surfactants	ADEKA COL CC-36	PPG-25 DIETHYLMONIUM CHLORIDE	PPG-25 二乙基甲基氯化铵
	ADEKA COL CC-42	PPG-40 DIETHYLMONIUM CHLORIDE	PPG-40 二乙基甲基氯化铵
	ADEKA CATIOACE PD-50	POLYQUATERNIUM-6	聚季铵盐-6
Cosmetic additives	ADEKA CARPOL DL series	PPG-XX	PPG-XX
	ADEKA CARPOL GH-200	PPG-24-GLYCERETH-24	PPG-24-甘油聚醚-24
	ADEKA CARPOL MD-100	TETRAHYDROXYPROPYL ETHYLENEDIAMINE	四羟丙基乙二胺
	ADEKA NOL OG	CAPRYLYL GLYCOL	辛甘醇
	PROPYLENE GLYCOL	PROPYLENE GLYCOL	丙二醇
	ADEKA DPG-RF	DIPROPYLENE GLYCOL	双丙甘醇
	ADEKA LUMINACARE BLQ	AUREOBASIDIUM PULLULANS FERMENT	出芽短梗霉发酵产物
	ADEKA LUMINACARE BLQ-S	AUREOBASIDIUM PULLULANS FERMENT PHENOXYETHANOL ETHYLHEXYLGLYCERIN	出芽短梗霉发酵产物 苯氧乙醇 乙基己基甘油
	ADEKA LUMINACARE BP	BETA-GLUCAN	β-葡聚糖
	ADEKA LUMINACARE MVL	MEVALONOLACTONE PHENOXYETHANOL	甲瓦龙酸内酯 苯氧乙醇
	ADEKA LUMINACARE MVA	MEVALONOLACTONE	甲瓦龙酸内酯

*Please contact for INCI Code.