





CERTIFICATE OF ANALYSIS 分析证书

PRODUCT NAME: Superol K Glycerin, USP/ FCC 产品名称: Superol K 甘油, USP/FCC

For food additive (not directly edible) 食品添加剂 (不可直接食用)

FC GCAS No./FC GCAS编号 95897935.012 : 10275607 Material Code/材料代码 IRMS No./IRMS 编号 10045672 Order No./订单号 : CN-A19-239 : February 7, 2020 Manufacturing Date/生产日期 Analysis Date/分析日期 : February 8, 2020 : 0038038811 Lot No./批号

Shelf Life/有效期 : 2 years for unopened package at ambient temperature conditions.*未开封包装室温条件下 2 年。*

Shelf life of this material in an unopened package is valid starting from the date of production. Shelf life of a material is dependent on various conditions including storage, handling, distribution and transportation. The shelf life of up to 2 years is expected for unopened packaged glycein that is stored under secure and normal temperature without any tampering, or changes to the recommended storage

Glycerin is commonly used in foods & beverages applications and serves as a humectant, solvent and sweetener, **
*USP monograph for excipient use. ** Based on technical suitability only. Appropriate use of product is the responsibility of the purchasers.用量和方法将由特定客户定义;使用范围:日油通常用于食品和饮料。用作湿润剂,这剂和甜味剂。**
*USP 专者规定用作赋形剂 ** 仅以技术适用性为基础。产品的适当使用是购买者的责任。

SHIPMENT QUALITY REPORT/发运质量报告

PARAMETER/♦\$	METHODS/方法	VALUE/值	LIMITS/配值
Identification A by IR: Glycerin /标识A – 按IR:甘油	60065177	PASS	PASS - as glycerin /通过 – 甘油
Identification B by GC: Limit of DEG & EG /标识 B – 按GC:DEG & EG 限值	98955124	PASS	PASS - Not more than 0.10% each of DEG and EG / 通过 – DEG和EG均不超过0.10%
Identification C by GC: Glycerin /标识C -按GC:甘油	98955124	PASS	PASS - as glycerin /通过 – 甘油
Residual Solvent/ 残留溶剂	USP467	PASS	Meets Requirement /符合要求
Fatty Acids and Esters (USP/FCC) / 脂肪酸和脂肪酯 (USP/FCC)	60065134	0.1	USL: 0.3 ml of 0.5N NaOH
Specific Gravity /比重	64012970	1.2613	LSL: 1.2613 @ 25 / 25°C
% Glycerin (calculated from Specific Gravity) / 甘油%(利用比重计算)	64012970	99.7	LSL: 99.7%
Odor /气味	60065271	PASS	PASS /通过
Flavor /味道	60065270	PASS	PASS /通过
APHA Color / APHA 颜色	60064681	2	USL: 10
Color USP FCC / 颜色USP FCC	97019504	PASS	PASS /通过
Residue On Ignition /炽灼残渣	60064682	0.004	USL: 0,007 %
Water /水分	60065135	0.0	USL: 0.3 %
Appearance (Visual Examination) /外观(目测)	60044625	PASS	PASS - Clear liquid, free of extraneous matter / 通过 - 澄清液体、无异物
Chloride /氯化物	60065128	PASS	PASS (USL: 10ppm) /通过 (USL: 10ppm)
Sulfate /硫酸盐	60065131	PASS	PASS (USL: 20ppm)/通过 (USL: 20ppm)
Heavy Metals (Including Lead (Pb) (mg/kg)) /重金属 (包括铅(Pb)(mg/kg))	60065174	PASS	PASS (USL: 1 ppm) /通过 (USL: 1 ppm)
Chlorinated Compounds /氯化化合物	60065420	PASS	PASS (USL: 30ppm USP, USL: 0.003% FCC)/ 通过 (USL: 30ppm USP, USL: 0.003% FCGETallogs

Effective Date: 27 Nov 2019 Revision no.: 21

Order no. CN-A19-239 lot: 0038038811

ANALYZED BY/分析员:- NAME/姓名:	QAMARUL		CERTIFIED BY CO SIGNATURE/签名:	DA APPROVER/认证员:- NORAZLINAWATI
Sulphated Ash, % / 硫酸化灰分、%		95395280	0.00	USL: 0.01%
Readily Carbonizable Substances /易碳化物质		95119738	PASS	PASS/通过
Related Compounds /相关化合物		95076103	PASS	PASS (USL: 0.1% individual impurity; USL: 1.0% for total impurities) /通过 (USL: 0.1% 个别杂质; USL: 1.0% 总杂质)
Assay, %, (FCC) /含量%,(FCC)		60065183	99.5	LSL: 99.0% - USL: 101.0%
Assay, USP, Anhydrous /含量,美国药典级·干基		60065183	99.5	LSL: 99,0% - USL: 101,0%

This analysis is not to be construed as a warranty. Customer is responsible to verify the lot and code numbers of product received with the numbers contained on this report and perform any other analyses necessary to determine suitability of the product described above for the use intended by the customer. No representations as to FDA regulated use are made for this product unless it is expressly designated as meeting either USP, NF, Cosmetic grade or Food Grade Status. The foregoing analysis report is valid up to, but not beyond, the date of delivery to our primary customer referenced above. Any subsequent handling, repackaging, storage, processing, transporting etc. of the product render this these analysis report void, unsupported and unsubstantiated by Procter & Gamble Chemicals.

本分析不得视为质保。客户负责核实本报告上所含编号是否与所收到产品的批号和代号相符,并进行确定上述产品适合用作客户预期用途所需的任何其他分析。我们未就本产品作出与FDA规范使用有实的声明,但明确指定为符合美国药典(USP)、国家处方集(NF)、化妆品级或食品级状态的除外。前述分析报告在交付给上文提及之我们主要客户之日前生效,且有效期不得超过此日期。若对本产品进行后续搬运、再包装、储存、加工、运输等,本分析报告即属无效,且不会得到宝洁化工的支持和证实

USL = Upper Specification Limit/规格上限

PASS = Within/通过=规格限值以内

LSL = Lower Specification Limit/规格下限

PROCTER & GAMBLE INTERNATIONAL OPERATIONS SA SINGAPORE BRANCH 11 North Buona Vista Drive, #21-07, The Metropolis Tower 2 Singapore 138589 Tel: +65 6712 3420 FPG Oleochemicals Sdn. Bhd. (184896-U) Lot 3831, Kuantan Port Industrial Area, Tanjung Gelang Peti Surat 26, Pejabat Pos Balok, 26080 Kuantan Pahang, Malaysia Tei: 609-5852 233 Fax: 609-5852 290 http://fpg.com.my

