
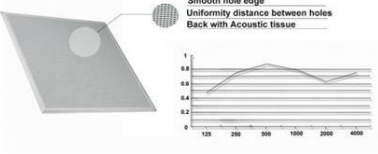


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Evaluation of preservative systems in a sunscreen formula by the linear regression method

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Synopsis: A sunscreen formula with eight different preservative systems was evaluated by linear regression, pharmaceutical, and the CTFA (Cosmetic, Toiletry and Fragrance Association) methods. The preparations were tested against Staphylococcus aureus, Bacillus subtilis, Streptococcus pyogenes, Escherichia coli, and Bacillus sp. The linear regression method proved to be useful in the selection of the most effective preservative system used in cosmetic formulation.

INTRODUCTION: Preservative efficacy testing is performed to determine the effectiveness of any added antimicrobial preservative in multiple-use cosmetic and pharmaceutical products. Methods and specifications for the preservative efficacy test for pharmaceutical products are described in pharmacopoeias (1-3), and the standardized test for cosmetics, which is similar to the pharmaceutical ones, was proposed by the Cosmetic, Toiletry and Fragrance Association (4). These methods consist of a challenge test that takes at least 28 days. The linear regression method was then proposed as a faster alternative (5-10). In spite of being the same as the technique proposed by the CTFA or the pharmacopoeial methods, it demands a shorter period of time to obtain results, through the calculation of D-values. Even though advantageous, this technique has been regarded as failing, as it uses the same principles of kinetic microbial killing, which leads to a first-order reaction, not necessarily followed by the preservative systems (11,12). Another vulnerable aspect of this method concerns the possibility of microbial growth during a longer length of time, impossible to be detected in the rapid method.

Despite the criticism, the need to get quick results led to this work, which evaluated the linear regression method when applied to the selection of preservative systems for cosmetics.

Ctfa microbiological limit guidelines for cosmetic and toiletries. Colipa/ctfa guidelines on stability testing of cosmetic products. Ctfa cosmetic microbiology guidelines.

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The most most extensive and most contemporary name of the Association reflects its composition more and more diverse, and the new slogan of the Association and the information website of the consumer highlight that the Council Á continuous and reinforced attention to consumer safety. Quality Guarantee Guidelines and Good CTFA Quality Management Practices will be available in June 2007.TFA Security Evaluation Guidelines will be available in the spring of 2007. We use Cookies on our website to provide the most relevant experience by remembering your preferences and repeated visits. "Á éÁThe wide range of beauty and personal care products that we represent are essential for the current lifestyles, and consumers resort to us to get accurate information about them" Á éÁ said Marc Pritchard, President Á éÁ Global Strategy in Procter & Gamble and President of the Care Staff Council Products Council. We use cookies on our website to provide the most relevant experience by remembering your preferences and repeated visits. Ultimately, the CTFA microbiology guidelines will be available in the summer of 2007. The new website, www.cosmeticsinfo.org, is an in-depth line resource that offers consumers an easy access to security information about cosmetic ingredients and science behind care products Staff found in almost all medicines and cosmetic cases. To get more information or book a copy, visit www.ctfa.org. Earlier this year, the Council also instituted a commitment code with consumers to reinforce more safeguards in the sector for consumers. When you click on Á éÁ Á éÁ accept all Á éÁ Á éÁ e, you accept the use of all aicneirepex aicneirepex agral anu noc dadiruges al azitroirp euq y aicneic al ne adasab airtsudni e nÁÁicazinagro anu somoS Á éÁ eganaMIA ed otnemimnesnoc le etpecAseikoc ed nÁÁicarugifnoC.odalortnoc otnemimnesnoc nu ranoicroporp arap "seikoc ed nÁÁicarugifnoC" ratisiv edeup ,ograbme niS lanosrep odadiuc ed y saicnagarf ed ,socit©Ámsoc sotcodorp ed laidnum airtsudni al atneserper .C.D. notgnihsaW ne edes noc ojesnoC le ,4981 ne odadnuF registration of security initiatives that go beyond the requirements of the law," Á Á said Pamela Bailey, president and CEO of the Personal Care Products Council. The Board will continue to educate its members on the practices incorporated in the Code 3 to increase the participation 3 the industry. All members of the Board signed the Code 3 on behalf of their companies. The site will continue to expand and update with new information3 The Technical Guidelines of the CTFA, according to the organization3 are exhaustive documents that are subject to extensive development and review 3 by industry experts and also to public review 3 by CTFA members and non-member companies, federal authorities and scientific professional societies. However, you can visit "Cookie 3" to provide controlled consent.Cookie settingsAccepting AllManage consent At the annual voting 3 of the National Conference of State Legislatures in Phoenix today, the CosmªÁ, Toiletry and Fragrance Association, anunciªÁ3 is changing its name to the Personal Care Products Council and launched an ambitious new consumer information website3 which contains detailed information 3 cosmetic security . security.

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