

ASSESSMENT OF THE PERIODICITY OF CALIBRATION OF EQUIPMENT AND INSTRUMENTS IN A COSMETICS INDUSTRY

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Introduction

For the production of effective and safe cosmetics, it is necessary to comply with the Good Manufacturing Practices (GMP) standards. An important requirement for the maintenance of GMP is the calibration of equipment. A large number of factors influence the time interval that should be allowed between calibrations. The objective of this work is to carry out a critical evaluation of the periodicity of calibration of equipment in a Cosmetic Industry.

Material and Methods

Equipment calibration certificates were identified, referring to three consecutive tests, from 2018 to 2020. These certificates were analyzed for compliance with NBR ISO/IEC 17025:2017. The conformity of the metrological requirements of the calibration certificates will be evaluated by verifying compliance with the specific standard for each equipment/instrument and/or through the acceptance criteria determined by the manufacturer.

Results and Discussion

The calibration certificates for the equipment used in the production of cosmetics were identified. These certificates were categorized by type of measurement (mass, temperature, pressure). All certificates analyzed presented some incomplete item in relation to the requirements recommended by the NBR ISO/IEC 17025:2017.

Conclusion

Compliance with the metrological requirements of the calibration certificates is being evaluated by verifying compliance with the specific standard. After the analysis, a general review of the data obtained will be carried out, followed by the construction of graphs of the trends observed in order to verify the performance of the equipment.

Through the data obtained in the certificates, it will be possible to carry out a critical evaluation and propose new calibration intervals.

Acknowledgments

I thank my advisor and PPG-CAPS/UFF for the opportunity and encouragement.

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