Arab Republic of Egypt
Egyptian Drug Authority
Central Administration for Medical devices
General Administration of Medical devices
Registration





جمهورية مصر العربية هيئة الدواء المصرية الإدارة المركزية للمستلزمات الطبية الادارة العامة لتسجيل المستلزمات الطبية إدارة تسجيل المستلزمات الطبية المحلية

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Ref No	Rev No.	Issue Date

Stability Study Protocol

Stability study protocol should include the following information:

- 1. Medical device name
- 2. Code/reference at which study conducted
- 3. Batch/lot number of samples used in the study
- 4. Manufacturing/expiry date of batch used
- 5. Components/raw materials
- 6. Sterilization method
- 7. Intended use
- 8. Required shelf life
- 9. Required storage conditions.
- 10. Packaging Material Specifications, including:
- Material type
- Dimensions (length, width, welding line width)
- Provide a justification for selecting the specific code for study. If this code represents the worst-case scenario, clearly justify the selection criteria.

1. Scope of the Study

 Clearly define the objective and purpose of the stability study under evaluation and its intended shelf life.

2. Type of Stability Study

Specify whether the study follows real-time stability or accelerated stability testing.

3. Accelerated Stability Study (if applicable)

Provide the calculation of Accelerated Aging Time (AAT) using the Arrhenius equation:

AAT = Desired RT / AAF

Where:

- RT (Real Time Targeted)
- AAF (Accelerated Aging Factor) = Q10^ [(TAA TRT)/10]
- Q10 = 2
- TAA (Accelerated Aging Temperature in °C)
- TRT (Ambient Temperature in °C)

4. Real-Time Stability Study (if applicable)

 Document the storage conditions under which the study is conducted, including temperature and humidity, in accordance with Zone IVa requirements for local medical devices.

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Tel.: +202 - 25354100 Ext.:1514 Fax: +202 - 23684194





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5. Study Duration

- o Specify the start and end dates of the stability study:
- For real-time studies, ensure the duration corresponds to the claimed shelf-life period.
- For accelerated studies, the duration should be determined based on the results of the Arrhenius equation.

6. Testing Schedule and Parameters

At the start, at defined intervals, and at the end of the study (at a minimum, at the end of the study), the following should be documented:

a) Test Names:

- Performance tests (according to manufacturing standard)
- Packaging tests according to ISO 11607 (visual inspection, seal strength, and integrity tests)
- Sterility tests
- LAL/Endotoxin Pyrogenicity

b) Standards Used:

Provide references for the specific standards followed for each test.
 Additionally, submit a soft copy of each referenced standard for verification.

c) Test Limits & specification:

Define the acceptable limits for each test.

d) Test methods:

Website: www.edaegypt.gov.eg

Provide detailed method for each test performed.

7. Conclusion of the Study

 Summarize the study's findings, including the stability assessment and overall compliance with regulatory requirements.

8. Enclosures

 Submit the accreditation certificate and scope of accreditation (for external laboratory testing).

Email: md.localreg@edaegypt.gov.eg