**Standard Operating Procedure (SOP): Quality Control of Pharmaceutical Compound ABC-123**

**Document No:** SOP-QC-ABC-123  
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**Approved by:** [Approver's Name], Quality Control Manager

**1. Purpose**

This SOP outlines the procedure for the quality control testing of Pharmaceutical Compound ABC-123, ensuring compliance with regulatory standards, safety, and efficacy.

**2. Scope**

This SOP applies to laboratory analysts and quality control personnel involved in testing and analyzing Compound ABC-123 within the Quality Control Department at [Company Name].

**3. Responsibilities**

* **Quality Control Analyst:** Conducting tests as per the SOP.
* **Supervisor:** Reviewing test results, ensuring adherence to the SOP.
* **Quality Assurance Manager:** Auditing the process, approving the SOP.

**4. Materials and Equipment**

* **Materials:** Pharmaceutical Compound ABC-123, Standard Reference Material.
* **Equipment:** HPLC, UV-Vis Spectrophotometer, pH Meter, etc.

**5. Procedure**

**5.1 Sample Preparation**

* Weigh accurately 10 mg of Compound ABC-123.
* Dissolve in 100 ml of the solvent to prepare a 100 µg/ml solution.

**5.2 Purity Analysis**

* Analyze the sample using HPLC as per method XYZ.
* Compare the peak purity with the Standard Reference Material.

**5.3 Content Analysis**

* Conduct a UV-Vis spectrophotometric analysis to determine the content.
* Calculate the percentage of the active compound.

**5.4 Stability Testing**

* Assess the stability under various conditions (temperature, humidity).
* Record observations over the specified time periods.

**5.5 Reporting and Documentation**

* Record all results, calculations, and observations in the QC report.
* Maintain traceability of the sample, including batch number, date, and analyst name.

**6. Safety Considerations**

* Follow laboratory safety guidelines.
* Wear appropriate personal protective equipment (PPE).

**7. Records**

* Store all quality control records for a minimum of 7 years.

**8. Revision History**

* Rev 01: [Description of Changes]
* Rev 02: [Description of Changes]
* Rev 03: [Description of Changes]

**9. Appendices**

* Appendix A: HPLC Method XYZ
* Appendix B: UV-Vis Spectrophotometric Method

**End of SOP**