

Project 0.2.0.263.786  
Audit Report: 21 CFR Part 11



Metrohm Ltd.  
CH-9101 Herisau  
Switzerland  
Tel. +41 71 353 85 85  
Fax +41 71 353 89 01  
www.metrohm.com

## ***tiamo* 1.3 for titration**

<b>Audit Date:</b>	08.05.2008 <sup>1</sup>
<b>Auditor:</b>	Yvonne Zurbuchen, Chemist FH, Chemengineering AG
<b>Audit Target:</b>	Compliance check of <i>tiamo</i> 1.3 software for controlling titration devices against the requirements of 21 CFR Part 11.
<b>Description:</b>	<p>PC software for controlling titration devices. Creation of methods, carrying out determinations (titrations and measurements), data acquisition, evaluation and archiving in a database.</p> <p>The above software was developed and manufactured in accordance with the requirements demanded by the ISO 9001 quality system regarding the design, manufacture and servicing of Metrohm instruments.</p>
<b>Investigation:</b>	<p>The functions and properties of the above software system are audited with the requirements of 21 CFR Part 11 and the current interpretations.</p> <p>During the audit the following items were examined: validation, documentation, audit trail, electronic copies, access rights, user access, password, access violation, sequence of steps, plausibility, device check, data encryption, digital signature.</p>
<b>Operator Responsibility:</b>	<p>The compliance with the requirements of 21 CFR Part 11 can only be met together with the operational environment. The requirements for such an environment are:</p> <ul style="list-style-type: none"><li>• technical environment, data management</li><li>• training</li><li>• administration</li><li>• SOP (Standard Operating Procedures)</li></ul>
<b>Summary:</b>	<p>The software is compliant to the following 21 CFR Part 11 requirements:</p> <ul style="list-style-type: none"><li>• 11.10.(a), (b), (d), (e), (f), (g), (h)</li><li>• 11.30, 11.50, 11.70</li><li>• 11.100 (a), 11.200 (a), 11.300 (a), (b), (d)</li></ul> <p>The software is compliant to the following 21 CFR Part 11 requirements with support of the operator.</p> <ul style="list-style-type: none"><li>• 11.10 (c), (i), (j), (k)</li><li>• 11.100 (b), 11.300 (c), (e)</li></ul> <p>The software is supporting digital signature.</p>

<sup>1</sup> A physical audit has been performed on the base of the Version *tiamo* 1.0 on the 02.03.2004. According to Metrohm Ltd., the implemented changes in the current version are not relevant regarding 21 CFR Part 11. Therefore, the initial physical audit has been renounced, this is scheduled for december 2008.