

First edition  
2014-05-15

---

---

## Soil quality — Detection of water soluble chromium(VI) using a ready-to-use test-kit method

*Qualité du sol — Détection du chrome(VI) soluble dans l'eau en utilisant un kit d'essai prêt à l'emploi*



Reference number  
ISO/TR 18105:2014(E)

© ISO 2014



**COPYRIGHT PROTECTED DOCUMENT**

© ISO 2014

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized otherwise in any form or by any means, electronic or mechanical, including photocopying, or posting on the internet or an intranet, without prior written permission. Permission can be requested from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office  
Case postale 56 • CH-1211 Geneva 20  
Tel. + 41 22 749 01 11  
Fax + 41 22 749 09 47  
E-mail [copyright@iso.org](mailto:copyright@iso.org)  
Web [www.iso.org](http://www.iso.org)

Published in Switzerland

# Contents

	Page
<b>Foreword</b> .....	<b>iv</b>
<b>Introduction</b> .....	<b>v</b>
<b>1 Scope</b> .....	<b>1</b>
<b>2 References</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>1</b>
<b>5 Reagents</b> .....	<b>2</b>
<b>6 Interferences</b> .....	<b>2</b>
<b>7 Apparatus</b> .....	<b>2</b>
<b>8 Procedure</b> .....	<b>2</b>
8.1 Calibration.....	2
8.2 Sample detection.....	2
8.3 Measurement.....	2
<b>9 Quality assurance (QA) and quality control (QC)</b> .....	<b>3</b>
<b>10 Test report</b> .....	<b>3</b>
<b>Annex A (informative) Extraction of Cr(VI) from soil CRMs</b> .....	<b>4</b>
<b>Annex B (informative) Comparison of Cr(VI) results obtained with commercially available test-kits</b> .....	<b>7</b>
<b>Annex C (informative) Simulation of mapping distributions of Cr(VI) contaminating potential land</b> .....	<b>8</b>
<b>Bibliography</b> .....	<b>14</b>