

# ISO 14184-3:2023-12 (E)

## Textiles - Determination of formaldehyde - Part 3: Free and hydrolysed formaldehyde (extraction method) by liquid chromatography

---

<b>Contents</b>		<b>Page</b>
Foreword.....		iv
<b>1</b>	<b>Scope.....</b>	<b>1</b>
<b>2</b>	<b>Normative references.....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions.....</b>	<b>1</b>
<b>4</b>	<b>Conformity.....</b>	<b>1</b>
<b>5</b>	<b>Principle.....</b>	<b>1</b>
<b>6</b>	<b>Reagents.....</b>	<b>2</b>
<b>7</b>	<b>Apparatus.....</b>	<b>3</b>
<b>8</b>	<b>Preparation of test specimen.....</b>	<b>3</b>
<b>9</b>	<b>Procedure.....</b>	<b>3</b>
9.1	Formaldehyde stock solution.....	3
9.1.1	Preparation of formaldehyde stock solution.....	3
9.1.2	Determination of the formaldehyde concentration in the stock solution.....	4
9.2	Determination of formaldehyde.....	4
9.2.1	Calibration of LC.....	4
9.2.2	Extraction of the test specimen.....	5
9.2.3	Derivatization with DNPH and analysis.....	5
<b>10</b>	<b>Expression of results.....</b>	<b>6</b>
10.1	Calculation of the formaldehyde content in textile test specimen.....	6
10.2	Spiking — Determination of recovery rate.....	6
10.3	Precision of the test method.....	6
<b>11</b>	<b>Test report.....</b>	<b>7</b>
<b>Annex A</b> (informative)	<b>Information on precision of the test method.....</b>	<b>8</b>
<b>Annex B</b> (informative)	<b>Examples of chromatographic and spectroscopic conditions.....</b>	<b>10</b>
<b>Bibliography.....</b>		<b>13</b>