

# DIN EN 16196:2013-01 (E)

## Fertilizers - Manganimetric determination of extracted calcium following precipitation in the form of oxalate

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b>	.....	<b>3</b>
<b>1</b>	<b>Scope</b> .....	<b>4</b>
<b>2</b>	<b>Normative references</b> .....	<b>4</b>
<b>3</b>	<b>Terms and definitions</b> .....	<b>4</b>
<b>4</b>	<b>Sampling</b> .....	<b>4</b>
<b>5</b>	<b>Principle</b> .....	<b>4</b>
<b>6</b>	<b>Reagents</b> .....	<b>4</b>
<b>7</b>	<b>Apparatus</b> .....	<b>5</b>
<b>8</b>	<b>Preparation of the test portion</b> .....	<b>5</b>
<b>9</b>	<b>Procedure</b> .....	<b>5</b>
<b>9.1</b>	<b>Preparation of the calcium oxalate</b> .....	<b>5</b>
<b>9.2</b>	<b>Titration of the oxalate precipitate</b> .....	<b>5</b>
<b>10</b>	<b>Calculation and expression of the result</b> .....	<b>5</b>
<b>11</b>	<b>Precision</b> .....	<b>6</b>
<b>11.1</b>	<b>Inter-laboratory test</b> .....	<b>6</b>
<b>11.2</b>	<b>Repeatability</b> .....	<b>6</b>
<b>11.3</b>	<b>Reproducibility</b> .....	<b>6</b>
<b>12</b>	<b>Test report</b> .....	<b>7</b>
<b>Annex A (informative) Statistical results of the inter-laboratory tests</b> .....		<b>8</b>
<b>Bibliography</b> .....		<b>10</b>