

# DIN EN ISO 13904:2016-06 (E)

## Animal feeding stuffs - Determination of tryptophan content (ISO 13904:2016)

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
Foreword .....		4
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Principle .....</b>	<b>5</b>
<b>3</b>	<b>Reagents and materials .....</b>	<b>5</b>
<b>4</b>	<b>Apparatus .....</b>	<b>7</b>
<b>5</b>	<b>Procedure .....</b>	<b>8</b>
5.1	Preparation of samples .....	8
5.1.1	Feeding stuffs .....	8
5.1.2	Commercial pure substances and premixtures containing more than 2 % of tryptophan ....	8
5.2	Determination of free tryptophan (extract) .....	8
5.2.1	Feeding stuffs .....	8
5.2.2	Commercial pure substances and premixtures containing more than 2 % of tryptophan ....	8
5.3	Determination of total tryptophan (hydrolysates) .....	9
5.4	HPLC determination .....	9
<b>6</b>	<b>Calculation of results .....</b>	<b>10</b>
6.1	Feeding stuffs .....	10
6.2	Commercial pure products and premixtures containing more than 2 % of tryptophan .....	10
6.2.1	Control of the calibration .....	10
6.2.2	Calculation .....	10
<b>7</b>	<b>Precision .....</b>	<b>11</b>
7.1	Interlaboratory test .....	11
7.1.1	Feeding stuffs .....	11
7.1.2	Commercial pure substances and premixtures containing more than 2 % of tryptophan ..	11
7.2	Repeatability .....	11
7.2.1	Feeding stuffs .....	11
7.2.2	Commercial pure substances and premixtures containing more than 2 % of tryptophan ..	11
7.3	Reproducibility .....	11
7.3.1	Feeding stuffs .....	11
7.3.2	Pure products and premixtures containing more than 2 % of tryptophan .....	12
<b>8</b>	<b>Test report .....</b>	<b>12</b>
<b>Annex A (informative) Results of an interlaboratory test .....</b>		<b>13</b>
<b>Annex B (informative) Observations on the method .....</b>		<b>15</b>
<b>Annex C (informative) Sample preparation: Example for analyses in pure products and premixtures .....</b>		<b>16</b>
<b>Annex D (informative) Results of an interlaboratory test for tryptophan in pure products and premixtures containing more than 2 % of tryptophan .....</b>		<b>17</b>
<b>Bibliography .....</b>		<b>18</b>