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Subject:	ANNEXES to Commission Regulation (EU) No .../.. amending Regulation (EC) No 2003/2003 of the European Parliament and of the Council relating to fertilisers for the purpose of adapting Annexes I and IV

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Delegations will find attached document D033584/03ANNEXES 1 to 2.

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ANNEXES 1 to 2

## **ANNEXES**

**to**

**Commission Regulation (EU) No .../..**

**amending Regulation (EC) No 2003/2003 of the European Parliament and of the Council  
relating to fertilisers for the purpose of adapting Annexes I and IV**

## ANNEX I

Annex I is amended as follows:

(1) in Table A.3, entry 1 in the table is replaced by the following:

'1	Crude potassium salt	Product obtained from crude potassium salts	9 % K <sub>2</sub> O Potassium expressed as water-soluble K <sub>2</sub> O  2 % MgO Magnesium in the form of water-soluble salts, expressed as magnesium oxide	Usual trade names may be added	Water-soluble potassium oxide Water-soluble magnesium oxide Total sodium oxide Chloride content must be declared'
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Type designation:		NPK-fertiliser suspension			
Data on method of production:		Product in liquid form, in which the nutrients are derived from substances both in suspension in the water and in solution without addition of organic nutrients of animal or vegetable origin			
Minimum content of nutrients (percentage by weight) and other requirements:		<ul style="list-style-type: none"> <li>- Total: 20 %, (N + P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O)</li> <li>- For each of the nutrients: 3 % N, 4% P<sub>2</sub>O<sub>5</sub>, 4 % K<sub>2</sub>O</li> <li>- Maximum biuret content: ureic N × 0,026</li> </ul>			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size		Data for identification of the fertilisers – Other requirements			
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6
(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen	(1) Water-soluble P <sub>2</sub> O <sub>5</sub> (2) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate (3) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate and water	Water-soluble K <sub>2</sub> O	(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	The fertilisers must not contain Thomas slag, aluminium calcium phosphate, calcined phosphates, partially solubilised phosphates or rock phosphates (1) If the water-soluble P <sub>2</sub> O <sub>5</sub> is less than 2 %, only solubility 2 shall be declared (2) If the water-soluble P <sub>2</sub> O <sub>5</sub> is at least 2 %, solubility 3 and the water-soluble P <sub>2</sub> O <sub>5</sub> content shall be declared	(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared

C.2.4	Type designation:	NPK-fertiliser suspension containing urea formaldehyde
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	Data on method of production:	Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in water, without addition of organic nutrients of animal or vegetable origin and containing urea formaldehyde			
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total 20 % (N + P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O)</li> <li>- For each of the nutrients: <ul style="list-style-type: none"> <li>- 5 % N, at least 25 % of the declared content of total nitrogen must derive from nitrogen form (5)</li> <li>- At least 3/5 of the declared nitrogen content (5) must be soluble in hot water</li> <li>- 4 % P<sub>2</sub>O<sub>5</sub></li> <li>- 4 % K<sub>2</sub>O</li> </ul> </li> </ul> Maximum biuret content: (ureic N + urea formaldehyde N) × 0,026			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size					
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6
(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from urea formaldehyde	(1) Water-soluble P <sub>2</sub> O <sub>5</sub> (2) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate (3) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate and in water	Water-soluble K <sub>2</sub> O	(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) Nitrogen from urea formaldehyde (4) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	The fertilisers must not contain Thomas slag, aluminium calcium phosphate, calcined phosphates, partially solubilised phosphates or rock phosphates (1) If the water-soluble P <sub>2</sub> O <sub>5</sub> is less than 2 %, only solubility (2) shall be declared (2) If the water-soluble P <sub>2</sub> O <sub>5</sub> is at least 2 %, solubility (3) and the water-soluble P <sub>2</sub> O <sub>5</sub> content shall be declared	(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared

C.2.5	Type designation:	NP-fertiliser solution			
	Data on method of production:	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin			
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total: 18 %, (N + P<sub>2</sub>O<sub>5</sub>)</li> <li>- For each of the nutrients: 3 % N, 5 % P<sub>2</sub>O<sub>5</sub></li> <li>- Maximum biuret content: ureic N × 0,026</li> </ul>			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size		Data for identification of the fertilisers – Other requirements			
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6
(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen	Water-soluble P <sub>2</sub> O <sub>5</sub>		(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	Water-soluble P <sub>2</sub> O <sub>5</sub>	
C.2.6	Type designation:	NP-fertiliser solution containing urea formaldehyde			
	Data on method of production:	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin and containing urea formaldehyde			
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total 18 % (N + P<sub>2</sub>O<sub>5</sub>)</li> <li>- For each of the nutrients: <ul style="list-style-type: none"> <li>- 5 % N, at least 25 % of the declared content of total nitrogen must derive from nitrogen form (5)</li> <li>- 5 % P<sub>2</sub>O<sub>5</sub></li> </ul> </li> </ul>			

		Maximum biuret content: $(\text{ureic N} + \text{urea formaldehyde N}) \times 0,026$		
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size				
N		P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
1		2	3	
(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from urea formaldehyde		Water-soluble P <sub>2</sub> O <sub>5</sub>		
			N	K <sub>2</sub> O
			4	6
			(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) Nitrogen from urea formaldehyde (4) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	Water-soluble P <sub>2</sub> O <sub>5</sub>

		NP-fertiliser suspension		
Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in the water, without addition of organic nutrients of animal or vegetable origin				
		<ul style="list-style-type: none"> <li>– Total: 18 %, (N + P<sub>2</sub>O<sub>5</sub>)</li> <li>– For each of the nutrients: 3 % N, 5 % P<sub>2</sub>O<sub>5</sub></li> <li>– Maximum biuret content: ureic N <math>\times</math> 0,026</li> </ul>		
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size				
N		P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
1		2	3	
			N	K <sub>2</sub> O
			4	6
				Water-soluble P <sub>2</sub> O <sub>5</sub>



(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen	(1) Water-soluble P <sub>2</sub> O <sub>5</sub> (2) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate (3) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate and water	(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	The fertilisers may not contain Thomas slag, aluminium calcium phosphate, calcined phosphates, partially solubilised phosphate or rock phosphates (1) If the water-soluble P <sub>2</sub> O <sub>5</sub> is less than 2 % only solubility 2 shall be declared (2) If the water-soluble P <sub>2</sub> O <sub>5</sub> is at least 2 %, solubility 3 will be declared and the water-soluble P <sub>2</sub> O <sub>5</sub> content must be stated
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C.2.8	Type designation:	NP-fertiliser suspension containing urea formaldehyde
	Data on method of production:	Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in water, without addition of organic nutrients of animal or vegetable origin and containing urea formaldehyde
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total 18 % (N + P<sub>2</sub>O<sub>5</sub>)</li> <li>- For each of the nutrients: <ul style="list-style-type: none"> <li>- 5 % N, at least 25 % of the declared content of total nitrogen must derive from nitrogen form (5)</li> <li>- At least 3/5 of the declared nitrogen content (5) must be soluble in hot water</li> <li>- 5 % P<sub>2</sub>O<sub>5</sub></li> </ul> </li> </ul> Maximum biuret content: (ureic N + urea formaldehyde N) × 0,026
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size		Data for identification of the fertilisers – Other requirements

N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6
(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from urea formaldehyde	(1) Water-soluble P <sub>2</sub> O <sub>5</sub> (2) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate (3) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate and in water		(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) (4) amounts to not less than 1 % by weight, it must be declared (3) Nitrogen from urea formaldehyde (4) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	The fertilisers must not contain Thomas slag, aluminium calcium phosphate, calcined phosphates, partially solubilised phosphates or rock phosphates (1) If the water-soluble P <sub>2</sub> O <sub>5</sub> is less than 2 %, only solubility (2) shall be declared (2) If the water-soluble P <sub>2</sub> O <sub>5</sub> is at least 2 %, solubility (3) and the water-soluble P <sub>2</sub> O <sub>5</sub> content shall be declared'	

(b) the following entries C.2.9 to C.2.14 are added:

Type designation:		NK-fertiliser solution			
‘C.2.9	Data on method of production:	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin			
	Minimum content of nutrients (percentage by weight) and other requirements:	– Total: 15 % (N + K <sub>2</sub> O) – For each of the nutrients: 3 % N, 5 % K <sub>2</sub> O – Maximum biuret content: ureic N × 0,026			
	Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size	Data for identification of the fertilisers – Other requirements			
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6

(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen		Water-soluble K <sub>2</sub> O	(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added	(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared
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C.2.10	Type designation:	NK-fertiliser solution containing urea formaldehyde			
	Data on method of production:	Product obtained chemically and by dissolution in water, in a form stable at atmospheric pressure, without addition of organic nutrients of animal or vegetable origin and containing urea formaldehyde			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total 15 % (N + K<sub>2</sub>O)</li> <li>- For each of the nutrients: <ul style="list-style-type: none"> <li>- 5 % N, at least 25 % of the declared content of total nitrogen must derive from nitrogen form (5)</li> <li>- 5 % K<sub>2</sub>O</li> </ul> </li> </ul> Maximum biuret content: (ureic N + urea formaldehyde N) × 0,026			
		Data for identification of the fertilisers – Other requirements			
N		P <sub>2</sub> O <sub>5</sub>	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1		2	4	5	6

<p>(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from urea formaldehyde</p>		Water-soluble K <sub>2</sub> O	<p>(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) Nitrogen from urea formaldehyde (4) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added</p>	<p>(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared</p>
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C.2.11	Type designation:	NK-fertiliser suspension			
	Data on method of production:	Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in the water, without addition of organic nutrients of animal or vegetable origin			
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total: 18 % (N + K<sub>2</sub>O)</li> <li>- For each of the nutrients: 3 % N, 5 % K<sub>2</sub>O</li> <li>- Maximum biuret content: ureic N × 0,026</li> </ul>			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size		Data for identification of the fertilisers – Other requirements			
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6

<p>(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen</p>		Water-soluble K <sub>2</sub> O	<p>(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added</p>		<p>(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared</p>
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C.2.12	<p>Type designation: Data on method of production: Minimum content of nutrients (percentage by weight) and other requirements:</p>	<p>NK-fertiliser suspension containing urea formaldehyde Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in water, without addition of organic nutrients of animal or vegetable origin and containing urea formaldehyde</p> <ul style="list-style-type: none"> <li>- Total 18 % (N + K<sub>2</sub>O)</li> <li>- For each of the nutrients: <ul style="list-style-type: none"> <li>- 5 % N, at least 25 % of the declared content of total nitrogen must derive from nitrogen form (5)</li> <li>- At least 3/5 of the declared nitrogen content (5) must be soluble in hot water</li> <li>- 5 % K<sub>2</sub>O</li> </ul> </li> </ul> <p>Maximum biuret content: (ureic N + urea formaldehyde N) × 0,026</p>				
	<p>Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size</p>	<p>N</p>	<p>P<sub>2</sub>O<sub>5</sub></p>	<p>K<sub>2</sub>O</p>	<p>N</p>	<p>P<sub>2</sub>O<sub>5</sub></p>
<p>1</p>	<p>2</p>	<p>3</p>	<p>4</p>	<p>5</p>	<p>6</p>	

<p>(1) Total nitrogen (2) Nitric nitrogen (3) Ammoniacal nitrogen (4) Ureic nitrogen (5) Nitrogen from urea formaldehyde</p>	Water-soluble K <sub>2</sub> O	<p>(1) Total nitrogen (2) If any of the forms of nitrogen (2), (3) and (4) amounts to not less than 1 % by weight, it must be declared (3) Nitrogen from urea formaldehyde (4) If the biuret content is less than 0,2 %, the words 'low in biuret' may be added</p>	<p>(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared</p>
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C.2.13	Type designation:	PK-fertiliser solution	
	Data on method of production:	Product obtained chemically and by dissolution in water, without addition of organic nutrients of animal or vegetable origin	
	Minimum content of nutrients (percentage by weight) and other requirements:	<p>– Total: 18 % (P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O) – For each of the nutrients: 5 % P<sub>2</sub>O<sub>5</sub>, 5 % K<sub>2</sub>O</p>	
	Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size	Data for identification of the fertilisers – Other requirements	
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N
1	2	3	4
	Water-soluble P <sub>2</sub> O <sub>5</sub>	Water-soluble K <sub>2</sub> O	Water-soluble P <sub>2</sub> O <sub>5</sub>
			<p>(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content</p>

					may be declared
C.2.14	Type designation:	PK-fertiliser suspension			
	Data on method of production:	Product in liquid form, in which the nutrients are derived from substances both in solution and in suspension in water, without addition of organic nutrients of animal or vegetable origin			
	Minimum content of nutrients (percentage by weight) and other requirements:	<ul style="list-style-type: none"> <li>- Total: 18 % (P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O)</li> <li>- For each of the nutrients: 5 % P<sub>2</sub>O<sub>5</sub>, 5 % K<sub>2</sub>O</li> </ul>			
Forms, solubilities and nutrient content to be declared as specified in columns 4, 5 and 6 – Particle size					
N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1	2	3	4	5	6
	(1) Water-soluble P <sub>2</sub> O <sub>5</sub> (2) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate (3) P <sub>2</sub> O <sub>5</sub> soluble in neutral ammonium citrate and water	Water-soluble K <sub>2</sub> O		The fertilisers must not contain Thomas slag, aluminium calcium phosphate, calcined phosphates, partially solubilised phosphates or rock phosphates (1) If the water-soluble P <sub>2</sub> O <sub>5</sub> is less than 2 % only solubility 2 will be declared (2) If the water-soluble P <sub>2</sub> O <sub>5</sub> is at least 2 % solubility 3 and the water-soluble P <sub>2</sub> O <sub>5</sub> content shall be declared	(1) Water-soluble potassium oxide (2) The words 'low in chloride' may be used only where the Cl content does not exceed 2 % (3) The chloride content may be declared'

(3) in Table F.1, the following entry 4 is added:

'4	3,4-dimethyl-1H-pyrazole phosphate (DMPP) EC No 424-640-9	Minimum: 0,8 Maximum: 1,6'		
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(4) in Table F.2, the following entry 3 is added:

'3	Reaction mixture of N-butyl-thiophosphoric-triamide (NBPT) and N-propyl-thiophosphoric-triamide (NPPT) (ratio 3:1 <sup>1</sup> ) EC No 700-457-2	Minimum: 0,02 Maximum: 0,3'		
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<sup>1</sup> Tolerance on the portion of N-propyl-thiophosphoric-triamide (NPPT): 20%.



## **ANNEX II**

In Annex IV, Section B, the following methods are added:

- (1) 'Method 12.6

### **Determination of DMPP**

*EN 16328: Fertilizers – Determination of 3, 4-dimethyl-1H-pyrazole phosphate (DMPP) – Method using high- performance liquid chromatography (HPLC)*

This method of analysis has been ring-tested.

- (2) Method 12.7

### **Determination of NBPT/NPPT**

*EN 16651: Fertilizers – Determination of N-(n-Butyl)thiophosphoric acid triamide (NBPT) and N-(n-Propyl)thiophosphoric acid triamide (NPPT) – Method using high- performance liquid chromatography (HPLC)*

This method of analysis has been ring-tested.'