

SCHEDULE 5

Regulations 22, 29 and 31

ANALYTICAL METHODOLOGY

Table A**Parameters for which, subject to regulation 31(4), methods of analysis are prescribed**

(1)	(2)
<i>Parameter</i>	<i>Method</i>
<i>Clostridium perfringens</i> (including spores)	Membrane filtration followed by anaerobic incubation of the membrane on m-CP agar(i) at $44 \pm 1^\circ\text{C}$ for 21 ± 3 hours. Count opaque yellow colonies that turn pink or red after exposure to ammonium hydroxide vapours for 20 to 30 seconds.
Coliform bacteria	ISO 9308-1
Colony count 22°C – enumeration of culturable micro-organisms	prEN ISO 6222
Enterococci	ISO 7899-2
<i>Escherichia coli</i> (<i>E.coli</i>)	ISO 9308-1
(i) The composition of m-CP agar is: Basal medium	
Tryptose	30g
Yeast extract	20g
Sucrose	5g
L-cysteine	1g
MgSO ₄ . 7H ₂ O	0.1g
Bromocresol purple	40mg
Agar	15g
Water	1,000ml
Dissolve the ingredients of the basal medium, adjust pH to 7.6 and autoclave at 121°C for 15 minutes. Allow the medium to cool and add:	
D-cycloserine	400mg
Polymyxine-B-sulphate	25mg
Indoxyl- β -D-glucoside	60mg
to be dissolved in 8ml sterile water before addition	
Filter – sterilised 0.5% phenolphthalein disphosphate solution	20ml
Filter – sterilised 4.5% FeC13 . 6H ₂ O	2ml

Status: This is the original version (as it was originally made).

Table B

Parameters in relation to which methods of analysis must satisfy prescribed characteristics

<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5)</i>
<i>Item No.</i>	<i>Parameters</i>	<i>Trueness % of prescribed concentration or value or specification</i>	<i>Precision % of prescribed concentration or value or specification</i>	<i>Limit of detection % of prescribed concentration or value or specification</i>
1.	Aluminium	10	10	10
2.	Ammonium	10	10	10
3.	Antimony	25	25	25
4.	Arsenic	10	10	10
5.	Benzene	25	25	25
6.	Benzo(a)pyrene	25	25	25
7.	Boron	10	10	10
8.	Bromate	25	25	25
9.	Cadmium	10	10	10
10.	Chloride	10	10	10
11.	Chromium	10	10	10
12.	Colour	10	10	10
13.	Conductivity	10	10	10
14.	Copper	10	10	10
15.	Cyanide(i)	10	10	10
16.	1,2- dichloroethane	25	25	25
17.	Fluoride	10	10	10
18.	Iron	10	10	10
19.	Lead	10	10	10
20.	Manganese	10	10	10
21.	Mercury	20	10	20

Notes:

- (i) The method of analysis should determine total cyanide in all forms.
- (ii) The performance characteristics apply to each individual pesticide and will depend on the pesticide concerned.
- (iii) The performance characteristics apply to the individual substances specified at 25% of the parametric value in Table B in Schedule 1.
- (iv) The performance characteristics apply to the individual substances specified at 50% of the parametric value in Table B in Schedule 1.
- (v) The performance characteristics apply to the prescribed value of 4NTU.

<i>(1)</i>	<i>(2)</i>	<i>(3)</i>	<i>(4)</i>	<i>(5)</i>
<i>Item No.</i>	<i>Parameters</i>	<i>Trueness % of prescribed concentration or value or specification</i>	<i>Precision % of prescribed concentration or value or specification</i>	<i>Limit of detection % of prescribed concentration or value or specification</i>
22.	Nickel	10	10	10
23.	Nitrate	10	10	10
24.	Nitrite	10	10	10
25.	Pesticides and related products (ii)	25	25	25
26.	Polycyclic aromatic hydrocarbons (iii)	25	25	25
27.	Selenium	10	10	10
28.	Sodium	10	10	10
29.	Sulphate	10	10	10
30.	Tetrachloroethene (i)(v)	25	25	10
31.	Tetrachloromethane	20	20	20
32.	Trichloroethene (iv)	25	25	10
33.	Trihalomethanes: Total (iii)	25	25	10
34.	Turbidity (v)	10	10	10

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(ii) The performance characteristics apply to each individual pesticide and will depend on the pesticide concerned.
(iii) The performance characteristics apply to the individual substances specified at 25% of the parametric value in Table B in Schedule 1.
(iv) The performance characteristics apply to the individual substances specified at 50% of the parametric value in Table B in Schedule 1.
(v) The performance characteristics apply to the prescribed value of 4NTU.