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## SCHEDULE 4

## PERMITTED ADDITIVES AND PROVISIONS RELATING TO THEIR USE

## PART II

## PERMITTED COLOURANTS

Column 1 <i>EEC No.</i>	Column 2 <i>Name or description</i>	Column 3 <i>Chemical formula, description</i>	Column 4 <i>Kind of animal</i>	Column 5 <i>Maximum content (mg/kg in complete feeding stuffs)</i>	Column 6 <i>Conditions</i>
E160c	1. Carotenoids	$C_{40}H_{56}O_3$	} Poultry	} 80 (alone or with the other carotenoids and xanthophylls)	None
E160e	and xanthophylls: Capsanthin	$C_{30}H_{40}O$			
E160f	Beta-apo-8'-carotenal	$C_{32}H_{44}O_2$			
E161b	Ethyl ester of beta-apo 8'-carotenoic acid	$C_{40}H_{56}O_2$			
E161c	Lutein	$C_{40}H_{55}$			
	Cryptoxanthin				
E161g	Canthaxanthin	$C_{40}H_{52}O_2$	(a) Poultry (b) Salmon, trout (c) Dogs, cats and ornamental fish	(a) 80 (b) No limit	Use permitted from the age of 6 months onwards. The mixture of canthaxanthin with astaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feeding stuff.
					None

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E161h	Zeaxanthin	C <sub>40</sub> H <sub>56</sub> O <sub>2</sub>	Poultry	} 80 (alone or with other carotenoids and xanthophylls)	None
E161i	Citranaxanthin	C <sub>33</sub> H <sub>44</sub> O	Laying hens		
E161j	Astaxanthin	C <sub>40</sub> H <sub>52</sub> O <sub>4</sub>	(a) Salmon trout (b) Ornamental fish	100 No limit	Use only permitted from the age of 6 months onwards. The mixture of astaxanthin with canthaxanthin is allowed provided that the total concentration of the mixture does not exceed 100 mg/kg in the complete feeding stuff.
E102	2. Other colourants:	C <sub>16</sub> H <sub>9</sub> N <sub>4</sub> Na <sub>3</sub> O <sub>9</sub> S <sub>2</sub>	Ornamental fish	No limit	None
E110	Tartrazine	C <sub>16</sub> H <sub>10</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>7</sub> S <sub>2</sub>			
E124	Sunset yellow FCF	C <sub>20</sub> H <sub>11</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>10</sub> S <sub>3</sub>			
E127	Ponceau 4R Erythrosine	C <sub>20</sub> H <sub>6</sub> I <sub>4</sub> Na <sub>2</sub> O <sub>5</sub> H <sub>2</sub> O			
E131	Patent Blue V	Calcium salt of the disulphonic acid of m-hydroxytetraethyl diamino triphenylcarbinol anhydride	(a) <del>All</del> No limit species or No limit categories of animals with the exception		Permitted in animal feeding stuffs only in products processed from: (i) waste products

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			of dogs and cats (b) Dogs and cats		(ii) of foodstuffs, denatured cereals or manioc flour, or (iii) other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.
E132	Indigotine	$C_{16}H_8N_2Na_2O_8S$	Ornamental fish	No limit	None
E141	Chlorophyll copper complex	—	Ornamental fish	No limit	None
E142	Acid Brilliant Green BS, (Lissamine Green)	Sodium salt of 4,4'-bis (dimethylamino) diphenylmethylenes-2-naphtol-3,6-disulphonic acid	(a) <del>All</del> species or categories of animals with the exception of dogs, cats and	No limit	Permitted in animal feeding stuffs only in products processed from: (i) waste products of foodstuffs, (ii) denatured cereals or

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			ornamental fish		manioc flour, or other base substances denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.
			(b) Dogs, cats and ornamental fish		(iii)
E153	Carbon black	C	} Ornamental fish	No limit	None
E160B	Bixin	C <sub>25</sub> H <sub>30</sub> O <sub>4</sub>			None
E172	Iron oxide, red	Fe <sub>2</sub> O <sub>3</sub>			None
3. All colourants (other than Patent Blue V and Acid Brilliant Green BS) at present permitted for use in human food by European Community Directives, as implemented by Regulations made or having effect	—		(a) <del>A</del> No limit species or No limit categories of animals with the exception of dogs and cats (b) Dogs and cats	Permitted in animal feeding stuffs only in products processed from: (i) waste products of, foodstuffs, or (ii) other base substances, with the exception of	None

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as if made under the Food Safety (Northern Ireland) Order 1991(1)				cereals and manioc flour, denatured by means of these agents or coloured during technical preparation to ensure the necessary identification during manufacture.	