

SCHEDULE 3

Overall and Specific Migration Testing Using Food Simulants

PART 4

Simulants to be used in relation to a Specific Food or Group of Foods

1. For the purposes of this Schedule a simulant is specified in relation to a specific food or a specific group of foods where “X” is placed in the column headed by that simulant opposite that specific food or specific group of foods in the Table to this Part, and the Table must be read in conjunction with the notes to it and with paragraphs 2 to 5.

2. For the purposes of this Part —

- (a) a reduction factor is the figure which follows an “X” and oblique stroke in the group of columns headed “Simulants to be used” in the Table to this Part;
- (b) a reduction factor is specified in relation to a specific food or group of foods where, in the Table —
 - (i) the food or group of foods is described in the column headed “Description of food”; and
 - (ii) “X” is placed in a column headed by a specified simulant opposite that food or group of foods followed by an oblique stroke and a reduction factor.

3. Where a reduction factor is specified in the Table in relation to a specific food or a specific group of foods, that reduction factor must be applied to the result of any migration test using the simulant specified in relation to that food or group of foods by dividing the result of the test by the reduction factor.

4.—(1) Where the letter “a” is shown in brackets after the “X”, only one of the two simulants specified must be used in the migration test, that is to say —

- (a) if the pH value of the food is higher than 4.5, simulant A must be used;
- (b) if the pH value of the foodstuff is 4.5 or less, simulant B must be used.

(2) Where the letter “b” is shown in brackets after the “X”, the indicated test must be carried out with ethanol 50% (v/v).

5. Where a food is listed in the Table under both a specific and a general heading, the simulant relating to the specific heading is the simulant which falls to be used for the migration test.

Reference Number	Description of food	Simulants to be used			
		A	B	C	D
01	Beverages				
01.01	Non-alcoholic beverages or alcoholic	X(a)	X(a)		

- (1) Simulant B must not be used where the pH is more than 4.5.
- (2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.
- (3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	beverages of an alcoholic strength lower than 5% vol: — Waters, ciders, fruit or vegetable juices of normal strength or concentrated, musts, fruit nectars, lemonades and mineral waters, syrups, bitters, infusions, coffee, tea, liquid chocolate, beers and other				
01.02	Alcoholic beverages of an alcoholic strength equal to or exceeding 5% vol. — Beverages shown under heading 01.01 but with an	X ⁽¹⁾	X ⁽²⁾		

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- (2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.
- (3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	alcoholic strength equal to or exceeding 5% vol. — Wines, spirits and liqueurs				
01.03	Miscellaneous: undenatured ethyl alcohol		X ⁽¹⁾	X ⁽¹⁾	
02	Cereals, cereal products, pastry, biscuits, cakes and other bakers' wares				
02.01	Starches				
02.02	Cereals, unprocessed, puffed, in flakes (including popcorn, cornflakes and the like)				
02.03	Cereal flour and meal				
02.04	Macaroni, spaghetti and similar products				
02.05	Pastry, biscuits, cakes and other bakers' wares, dry:				

(1) Simulant B must not be used where the pH is more than 4.5.

(2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.

(3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	A With fatty substances on the surface				X/5
	B Other				
02.06	Pastry, biscuits, cakes and other bakers' wares, fresh:				
	A With fatty substances on the surface				X/5
	B Other	X			
03	Chocolate, sugar and products thereof Confectionery products				
03.01	Chocolate, chocolate-coated products, substitutes and products coated with substitutes				X/5
03.02	Confectionery products: A in solid form: — with fatty substances on the surface — Other B in paste form:				X/5
<p>(1) Simulant B must not be used where the pH is more than 4.5.</p> <p>(2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.</p> <p>(3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.</p>					

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		A	B	C	D
	— with fatty substances on the surface				X/3
	— moist	X			
03.03	Sugar and sugar products				
	A In solid form				
	B Honey and the like	X			
	C Molasses and sugar syrups	X			
04	Fruit, vegetable and products thereof				
04.01	Whole fruit, fresh or chilled				
04.02	Processed fruit:				
	A Dried or dehydrated fruit, whole or in the form of flour or powder				
	B Fruit in the form of chunks, puree or paste	X(a)	X(a)		
	C Fruit preserves (jams and similar products)				
<p>(1) Simulant B must not be used where the pH is more than 4.5.</p> <p>(2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.</p> <p>(3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.</p>					

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	— whole fruit or chunks or in the form of flour or powder, preserved in a liquid medium):				
	— i) In an aqueous medium	X(a)	X(a)		
	— ii) In an oily medium	X(a)	X(a)		X
	— iii) In an alcoholic medium > 5% vol		X ⁽¹⁾	X	
04.03	Nuts (peanuts, chestnuts, almonds, hazelnuts, walnuts, pine kernels and others)				
	A Shelled, dried				
	B Shelled and roasted				X/5 ⁽³⁾
	C In paste or cream form	X			X/3 ⁽³⁾
04.04	Whole vegetables, fresh or chilled				
04.05	Processed vegetables:				
	A Dried or dehydrated vegetables				

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(2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.

(3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	whole or in the form of flour or powder				
	B Vegetables, cut, in the form of purees	X(a)	X(a)		
	C Preserved vegetables:				
	— i) In an aqueous medium	X(a)	X(a)		
	— ii) In an oily medium	X(a)	X(a)		X
	— iii) In an alcoholic medium (> 5% vol)		X ⁽¹⁾	X	
05	Fats and oils				
05.01	Animal and vegetable fats and oils, whether natural or treated (including cocoa butter, lard, resolidified butter)				X
05.02	Margarine, butter and other fats and oils made from water emulsions in oil				X/2
06	Animal products and eggs				

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(2) This test must be carried out in the case of liquids or beverages of an alcoholic strength exceeding 10% vol. with aqueous solutions of ethanol of a similar strength.

(3) If it can be demonstrated under regulation 13(2) or proved by means of an appropriate test that there is to be no fatty contact with the plastic material or article, simulant D must not be used.

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
06.01	Fish:				
	A Fresh, chilled, salted, smoked	X			X/3 ⁽³⁾
	B In the form of paste	X			X/3 ⁽³⁾
06.02	Crustaceans and molluscs (including oysters, mussels, snails) not naturally protected by their shells	X			
06.03	Meat of all zoological species (including poultry and game):				
	A Fresh, chilled, salted, smoked	X			X/4
	B In the form of paste, creams	X			X/4
06.04	Processed meat products (ham, salami, bacon and other)	X			X/4
06.05	Preserved and part-preserved meat and fish:				
	A In an aqueous medium	X(a)	X(a)		

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		A	B	C	D
	B In an oily medium	X(a)	X(a)		X
06.06	Eggs not in shell:				
	A Powdered or dried				
	B Other	X			
06.07	Egg yolks:				
	A Liquid	X			
	B Powdered or frozen				
06.08	Dried white of egg				
07	Milk products				
07.01	Milk:				
	A Whole				X(b)
	B Partly dried				X(b)
	C Skimmed or partly skimmed				X(b)
	D Dried				
07.02	Fermented milk such as yoghurt, buttermilk and such products in association with fruit and fruit products		X		X(b)
07.03	Cream and sour cream		X(a)		X(b)
07:04	Cheeses:				

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	A Whole, with non-edible rind				
	B All others	X(a)	X(a)		X/3 ⁽³⁾
07:05	Rennet:				
	A In liquid or viscous form	X(a)	X(a)		
	B Powdered or dried				
08	Miscellaneous products				
08.01	Vinegar		X		
08.02	Fried or roasted foods:				
	A Fried potatoes, fritters and the like				X/5
	B Of animal origin				X/4
08.03	Preparations for soups, broths in liquid, solid or powder form (extracts, concentrates); homogenized composite food preparations, prepared dishes:				
	A Powdered or dried				
	— i) With fatty				X/5

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
	substances on the surface				
	— ii) Other				
	B Liquid or paste:				
	— i)	X(a)	X(a)		X/3
	With fatty substances on the surface				
	— ii) Other	X(a)	X(a)		
08.04	Yeasts and raising agents:				
	A In paste form	X(a)	X(a)		
	B Dried				
08.05	Salt				
08.06	Sauces:				
	A Without fatty substances on the surface	X(a)	X(a)		
	B	X(a)	X(a)		X/3
	Mayonnaise, sauces derived from mayonnaise, salad creams and other oil in water emulsions				
	C Sauce containing oil and water forming two distinct layers	X(a)	X(a)		X
08.07	Mustard (except powdered)	X(a)	X(a)		X/3 ⁽³⁾

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Reference Number	Description of food	Simulants to be used			
		A	B	C	D
08.08	mustard under heading 08.17)				
	Sandwiches, toasted bread and the like containing any kind of foodstuff:				
	A With fatty substances on the surface				X/5
	B Other				
08.09	Ice-creams	X			
08.10	Dried foods:				
	A With fatty substances on the surface				X/5
	B Other				
08.11	Frozen or deep-frozen foods				
08.12	Concentrated extracts of an alcoholic strength equal to or exceeding 5% vol		X ⁽¹⁾	X	
08.13	Cocoa:				
	A Cocoa powder				X/5 ⁽³⁾
	B Cocoa paste				X/3 ⁽³⁾
08.14	Coffee, whether or not roasted, decaffeinated or soluble, coffee				

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		A	B	C	D
	substitutes, granulated or powdered				
08.15	Liquid coffee extracts	X			
08.16	Aromatic herbs and other herbs: Camomile, mallow, mint, tea, lime blossom and others				
08.17	Spices and seasonings in the natural state: Cinnamon, cloves, powdered mustard, pepper, vanilla, saffron and other				

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