ANNEX

The Annex to Decision 2002/364/EC is amended as follows:

- 1. Section 2 is amended as follows:
 - (a) the following definition of 'First line assay' is inserted between the definition of 'Whole system failure rate' and the definition of 'Confirmation assay':

First-line assay

First-line assay means an assay used to detect a marker or analyte, and which may be followed by a confirmatory assay. Devices intended solely to be used to monitor a previously determined marker or analyte are not considered first-line assays.;

(b) the definition of 'Confirmation assay' is replaced by the following:

Confirmatory assay

Confirmatory assay means an assay used for the confirmation of a reactive result from a first-line assay.;

- 2. Section 3 is amended as follows:
 - (a) Sub-section 3.1.1 is replaced by the following:
 - 3.1.1. Devices which detect virus infections shall meet the requirements for sensitivity and specificity set out in Table 1, Table 3, Table 4 and Table 5, which apply to them taking account of the intended purpose of the devices concerned, virus type and entities to be detected (antigen and/or antibody). See also principle 3.1.11 for first-line assays.;
 - (b) Sub-section 3.1.3 is replaced by the following:
 - 3.1.3. Devices for self-testing shall meet the same CTS requirements for sensitivity and specificity as respective devices for professional use. Relevant parts of the performance evaluation shall be carried out (or repeated) by appropriate lay users to validate the operation of the device and the instructions for use. The lay users selected for the performance evaluation shall be representative of the intended users groups.

Performance evaluation of a device for self-testing shall include, for each body fluid claimed for use with the device, e.g. whole blood, urine, saliva, etc., at least 200 lay users that are known positive for the infection and at least 400 lay users that do not know their status, of which at least 200 are at high risk of acquiring the infection. The sensitivity and specificity of the device for self-testing in the hands of lay users shall be defined against the confirmed patient infectious status.;

- (c) Sub-section 3.1.9 is replaced by the following:
 - 3.1.9. Performance evaluation of first line assays shall include 25 positive (if available in the case of rare infections) 'same day' fresh serum samples (≤ 1 day after sampling).;

- (d) Sub-section 3.1.11 is replaced by the following:
 - 3.1.11. For performance evaluations for first line assays (Table 1 and Table 3) blood donor populations shall be investigated from at least two blood donation centers and consist of consecutive blood donations, which have not been selected to exclude first time donors.;
- (e) Sub-section 3.4.2 is replaced by the following:
 - 3.4.2. The manufacturer's batch release testing for first line assays shall include at least 100 specimens negative for the relevant analyte...
- 3. Table 1 is replaced by the following:

TABLE 1

First-line assays, excluding rapid tests: anti-HIV 1/2, HIV 1/2 Ag/Ab, anti-HTLV I/II, anti-HCV, HCV Ag/Ab, HBsAg, anti-HBc

		anti- HIV 1/2, HIV 1/2 Ag/Ab	Anti- HTLV- I/II	anti- HCV, HCV Ag/Ab	HBsAg	Anti- HBc
Diagnostic sensitivity	Positive specimens	400 HIV-1 100 HIV-2 including 40 non-B- subtypes, all available HIV/1 subtypes shall be represented by at least 3 samples per subtype	300 HTLV-I 100 HTLV-II	400 (positive samples) Including samples from different stages of infection and reflecting different antibody patterns. Genotype 1-4: > 20 samples per genotype (including non-a subtypes of genotype 4); 5: > 5 samples; 6: if available	400 including subtype-consideration	400 including evaluation of other HBV-markers

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	Sero- conversion panels	20 panels 10 further panels (at notified body or manufactur	To be defined when available	20 panels 10 further panels (at notified body or manufactur	20 panels 10 further panels (at notified body or em)anufactur	To be defined when available
Analytical sensitivity	Standards				0,130 IU/ml (WHO Internations Standard: Third Internations Standard for HBsAg, subtypes ayw1/ adw2, HBV genotype B4, NIBSC code: 12/226)	
Specificity	Unselected donors (including first-time donors)	5 000	5 000	5 000	5 000	5 000
	Hospitalize patients	2 00	200	200	200	200
	Potentially cross-reacting blood-specimens (RF+, related viruses, pregnant women, etc)	100	100	100	100	100

4. Table 3 is replaced by the following:

TABLE 3

Rapid tests: anti-HIV 1/2, HIV 1/2 Ag/Ab, anti-HCV, HCV Ag/Ab, HBsAg, anti-HBc, anti-HTLV I and II

		anti- HIV 1/2, HIV 1/2 Ag/Ab	anti- HCV, HCV Ag/Ab	HBsAg	anti- HBc	anti- HTLV I and II	Acceptance criteria
Diagnostic sensitivity	cPositive specimens	Same scriteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1
	Sero- conversion panels	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1	Same criteria as in Table 1
Diagnostic	specimens	² 1 000 Sblood donations	1 000 blood donations	1 000 blood donations	1 000 blood donations	1 000 blood donations	96 %)
		200 clinical specimens	200 clinical sspecimens	200 clinical specimens	200 clinical sspecimens	200 clinical sspecimens	
		200 samples from pregnant women	200 samples from pregnant women	200 samples from pregnant women		200 samples from pregnant women	
				100 ypotentially ginterfering samples			

5. Table 4 is replaced by the following:

TABLE 4

Confirmatory and supplementary assays for anti-HIV 1/2, HIV 1/2 Ag/Ab, anti-HTLV I and II, anti-HCV, HCV Ag/Ab, HBsAg

		anti- HIV 1/2, HIV 1/2 Ag/Ab confirmat assays	anti- HTLV I and II confirmat assays ory	anti- HCV, HCV orlyg/Ab suppleme assays	HBsAg confirmat assays ntary	Acceptance o cy iteria
Diagnostic sensitivity	Positive specimens	200 HIV-1 and 100 HIV-2	200 HTLV-I and 100 HTLV-II	300 HCV (positive samples) Including samples	300 HBsAg Including samples from	Correct identification as positive (or indeterminate),

a Acceptance criteria: no neutralisation for HBsAg confirmatory assay.

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		Including samples from different stages of infection and reflecting different antibody patterns		from different stages of infection and reflecting different antibody patterns. Genotypes 1 – 4: > 20 samples (including non-a subtypes of genotype 4; Genotype 5: > 5 samples; Genotype 6: if available	different stages of infection 20 'high pos' samples (>26 IU/ ml); 20 samples in the cut-off range	not negative
	Sero- conversion panels	15 sero- conversion panels/ low titre panels		15 sero- conversion panels/ low titre panels	15 sero- conversion panels/ low titre panels	
Analytical sensitivity	Standards				Third International Standard for HBsAg, subtypes ayw1/ adw2, HBV genotype B4, NIBSC code: 12/226	al
Diagnostic specificity	Negative specimens	200 blood donations 200 clinical samples	200 blood donations 200 clinical samples	200 blood donations 200 clinical samples	10 false positives as available from the performance	No false- positive results/a no neutralisation e

a Acceptance criteria: no neutralisation for HBsAg confirmatory assay.

including pregnant women	including pregnant women	including pregnant women	evaluation of the first line assay ^a .				
50	50	50	50				
potentially	potentially	potentially	potentially				
interfering	interfering	interfering	interfering				
samples,	samples,	samples,	samples				
including	including	including					
samples	samples	samples					
with	with	with					
indetermina	tic adetermina	tic adetermina	ate				
results	results	results					
in other	in other	in other					
confirmatorsonfirmatorsupplementary							
assays	assays	assays					

a Acceptance criteria: no neutralisation for HBsAg confirmatory assay.

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