

**United Kingdom - More stringent blood donor testing requirements
2015 Mapping exercise**

Colour key	
	Minimum requirements as set out in the 2004/33/EC Directive
	More stringent testing - legally binding on national level
	More stringent testing - recommended on national level
	Not legally binding and not recommended on national level

Test	Test/ technique	Legally binding	Recommendation on national level	Recommending authority/ service/ association	Type of blood donation (blood for transfusion or plasma for fractionation)	Circumstances for application/ donor profile	Regional differences	Further comments
Basic testing								
Blood group testing	ABO typing	YES	YES	Joint Professional Advisory Committee of the UK Blood Services http://www.transfusionsguidelines.org/red-book/chapter-12-donation-testing-red-cell-immuno-haematology/12-10-mandatory-testing-of-blood-donations	whole blood/ blood components for transfusion	all donations	NO	
	RhD typing	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations	YES	e.g. specific requirement for weak RhD testing in Northern Ireland for first presentation RhD negative results
	Other, please specify (Kell etc.)							
HLA testing								
Disease testing								
VIRAL								
HIV 1 and HIV 2	Anti-HIV 1	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations	YES	HIV NAT is not a mandatory requirement (except in Scotland) but is included as part of the triplex test that is used for HIV, HCV and HBV. Tested in pools of 24 donations. HIV 1 p24 is recommended as an option where it is in a combined assay with antibody testing.
	Anti-HIV 2	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations		
	HIV 1p24	NO	YES	http://www.transfusionsguidelines.org.uk/red-book/chapter-9-microbiology-tests-for-donors-and-donations-general-specifications-for-laboratory-test-procedures	whole blood/ blood components for transfusion	N/A		
	HIV NAT pool or ID	NO	YES	http://www.transfusionsguidelines.org.uk/red-book/chapter-9-microbiology-tests-for-donors-and-donations-general-specifications-for-laboratory-test-procedures	whole blood/ blood components for transfusion	all donations		
	HIV NAT ID Other technique							
Hepatitis B	HBs Ag	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations	NO	If anti-HBc is positive an anti-HBs test will be undertaken. HBV NAT is not a mandatory requirement but is included as part of the triplex test that is used for HIV, HCV and HBV. Tested in pools of 24 donations.
	Anti-HBc	NO	YES	http://www.transfusionsguidelines.org/dsg/wb/guidelines/he016-hepatitis-b	whole blood/ blood components for transfusion	Donor profile: lifestyle (e.g. body piercing) or history of jaundice		
	Anti - HBs	NO	YES	http://www.transfusionsguidelines.org/dsg/wb/guidelines/he016-hepatitis-b	whole blood/ blood components for transfusion	Donor profile: lifestyle (see comment)		
	HBV NAT pool or ID	NO	YES	http://www.transfusionsguidelines.org.uk/red-book/chapter-9-microbiology-tests-for-donors-and-donations-general-specifications-for-laboratory-test-procedures	whole blood/ blood components for transfusion	all donations		
	HBV NAT ID Other technique							
Hepatitis C	Anti-HCV	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations	NO	
	HCV NAT pool or ID	YES	YES	Joint Professional Advisory Committee of the UK Blood Services	whole blood/ blood components for transfusion	all donations		
	HCV NAT ID Other technique							
Hepatitis E	HEV/ technique not specified Anti-HEV						NO	HEV NAT ID screening to be implemented in 2016 for selected patient groups (allogeneic stem cell transplants and organ transplants)
	HEV NAT pool or ID	NO	YES	SABTO (Advisory Committee on the Safety of Blood, Tissues and Organs)	whole blood/ blood components for transfusion	See comment		
	HEV NAT ID Other technique							
HTLV-1	HTLV-1/ technique not specified Anti-HTLV-1	NO	YES	SABTO (Advisory Committee on the Safety of Blood, Tissues and Organs)	whole blood/ blood components for transfusion	See comment	NO	Future changes to test all new donors and non-leucodepleted donations 2016
	HTLV-1 NAT pool or ID							
	HTLV-1 NAT ID							
	Other technique							
HTLV-2	HTLV-2/ technique not specified Anti-HTLV-2	NO	YES	SABTO (Advisory Committee on the Safety of Blood, Tissues and Organs)	whole blood/ blood components for transfusion	See comment	NO	Future changes to test all new donors and non-leucodepleted donations 2016
	HTLV-2 NAT pool or ID							
	HTLV-2 NAT ID							
	Other technique							
Ebola Virus								
Chikungunya virus								
Cytomegalovirus	CMV/ technique not specified						NO	Required for intra-uterine, antenatal and neonatal

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	Anti-CMV	NO	YES	http://www.transfusionsguidelines.org.uk/	whole blood/ blood components for transfusion	Specific patient groups (see comment)		transfusions and ad-hoc requests for CMV negative components for at-risk patients.
	CMV NAT pool or ID							
	CMV NAT ID							
	Other technique							
West Nile Virus	WNV/ technique not specified						NO	Possible changes from 1st January 2016 to test single donations. Testing season between May and November inclusive
	WNV NAT pool or ID	NO	YES	http://www.transfusionsguidelines.org.uk/	whole blood/ blood components for transfusion	Travel History		
	WNV NAT ID*							
	Other technique							
Dengue Virus								
Epstein-Barr virus								
Human Parvovirus 819								
Herpes simplex virus								
Other pathogen, specify								
PARASITIC								
Malaria	Technique not specified						NO	
	Microscopy							
	<i>Plasmodium sp.</i> Ab	YES	YES	http://www.transfusionsguidelines.org/dsg/	whole blood/ blood components for transfusion	residence/travel history		
	<i>Plasmodium sp.</i> Ag							
	<i>Plasmodium sp.</i> Ag - rapid test							
	<i>Plasmodium sp.</i> NAT pool or ID							
	<i>Plasmodium sp.</i> NAT ID							
	Other technique							
Trypanosomiasis	Technique not specified						NO	
	Microscopy							
	Anti- <i>Trypanosoma cruzi</i>	YES	YES	http://www.transfusionsguidelines.org/dsg/	whole blood/ blood components for transfusion	residence/travel history		
	<i>T. cruzi</i> NAT pool or ID							
	<i>T. cruzi</i> NAT ID							
	Other technique							
Babesiosis								
Leishmaniasis								
Toxoplasmosis								
Other pathogen, specify								
BACTERIAL								
Treponema pallidum (Syphilis)	Technique not specified						NO	
	Microscopy							
	Anti- <i>T. pallidum</i>	YES	YES	http://www.transfusionsguidelines.org.uk/	whole blood/ blood components for transfusion	all donations		
	<i>T. pallidum</i> NAT pool or ID							
	<i>T. pallidum</i> NAT ID							
	Culture							
	Other technique							
Neisseria gonorrhoeae								
Brucellosis								
Tuberculosis								
Q-fever								
Other pathogen, specify								
FUNGI								
specify pathogen								

* For WNV NAT ID, see 2004/33/EC as amended by 2014/110/EU with a deadline for transposition into national law of December 31, 2015