

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

METHODOLOGY

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Lab No.	HLA Diseases	Date received	Date tested	Method used										Source of Primers and Probes			Kit manufacturer	Detection method	Comments
				A	B	C	DRB1	DRB3,4,5	DQA1	DQB1	DPA1	DPB1	Commercial Kits	Own Design	Other				
11	Coeliac, Narcolepsy, Birdshot Retinopathy, Behcets	17-Oct	23-Oct	SSP/LUM	SSP/LUM										Yes	Yes	One Lambda	Gel, Fluorescence	
12	Coeliac, Behcets	18-Oct	25-Oct												Yes	Yes	In-house	Gel	
17	Coeliac, Narcolepsy	17-Oct	26-Oct												Yes		Olerup	Gel	
24	Narcolepsy	18-Oct	24-Oct				LUM								Yes		Olerup, Immucor	Gel, Fluorescence	
25	Coeliac, Narcolepsy, Actinic Prurigo, Birdshot Retinopathy, Behcets	17-Oct	18-Oct				SSP/SSOP								Yes		Innotrain, Immucor, Olerup	Fluorescence	
38	Coeliac, Narcolepsy, Actinic Prurigo, Birdshot Retinopathy, Behcets	17-Oct	18-Oct	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	LUM/NGS	Yes		One Lambda, Illumina	Fluorescence	
42	Coeliac, Narcolepsy, Actinic Prurigo, Birdshot Retinopathy, Behcets	17-Oct	22-Oct	LUM	LUM		LUM								Yes		One Lambda	Fluorescence	
78	Coeliac	17-Oct	19-Oct						SSP						Yes		Linkage Biosciences	Fluorescence	
85	Coeliac	18-Oct	19-Oct																
86	Coeliac	17-Oct	24-Oct				LUM			LUM					Yes		Protrans	Gel	
109	Coeliac, Narcolepsy	17-Oct																	
113	Coeliac, Narcolepsy, Rheumatoid Arthritis, Diabetes	17-Oct	19-Oct				LUM			LUM					Yes		One Lambda	Fluorescence	
123	Coeliac	18-Oct	22-Oct																
124	Coeliac	23-Oct	30-Oct						Microarray	Microarray					Yes		Euroimmun	Fluorescence	
126	Coeliac	29-Oct	29-Oct																
127	Coeliac, Narcolepsy	17-Oct	30-Oct												Yes		Euroimmun	Fluorescence	
129	Coeliac, Narcolepsy, Diabetes	19-Oct	02-Nov																
142	Coeliac	18-Oct	19-Oct				SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	Yes		Linkage	Fluorescence	
150	Narcolepsy, Birdshot Retinopathy	18-Oct	25-Oct	LUM	LUM										Yes		One Lambda	Gel	
154	Coeliac, Narcolepsy	17-Oct	30-Oct				SSP			SSP	SSP				Yes		Olerup	Gel	
159	Coeliac	19-Oct	19-Oct							SSP	SSP				Yes		Olerup	Gel	
173	Coeliac	24-Oct	29-Oct		SSP					SSP	SSP				Yes	Yes		Fluorescence	
176	Coeliac	17-Oct	19-Oct																
185	Coeliac, Narcolepsy	17-Oct	23-Oct				LUM			LUM	SSP/SBT				Yes		Olerup, Protrans, Immucor	Gel, Fluorescence	
201	Coeliac	17-Oct	29-Oct																
219	Coeliac	31-Oct	06-Nov							LUM	LUM				Yes		One Lambda	Fluorescence	
223	Coeliac, Narcolepsy	17-Oct	22-Oct							SSP	SSP				Yes		Olerup	Gel	
224	Coeliac	17-Oct	24-Oct							SSOP	SSOP				Yes		BAG	Coloured dots formed after specific hybridisation detected by CCD camera	
225	Coeliac	25-Oct	26-29-Oct							SSP	SSP				Yes		Olerup	Gel	
245	Coeliac, Narcolepsy, Birdshot Retinopathy, Diabetes	17-Oct	19-Oct	SSOP	SSOP		SSOP			SSOP	SSOP		SSP		Yes		Life Technologies, BAG	Fluorescence	
255	Coeliac	17-Oct	19-Oct							qPCR	qPCR				Yes		AnDiaTec	Fluorescence	
263	Coeliac	25-Oct	26-Oct							RT-PCR	RT-PCR				Yes	Yes	In-house	Fluorescence	
269	Coeliac		02-Nov							SSOP	SSOP				Yes		Euroimmun	Fluorescence	
274	Coeliac	16-Oct	23-Oct				SSP	SSP	SSP	SSP	SSP				Yes		Operon Coeliac Strip	Fluorescence	
276	Coeliac, Narcolepsy	17-Oct	25-Oct	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	SSP	Yes		Linkage Bioscience		
278	Coeliac	23-Oct	29-Oct																
279	Coeliac	17-Oct	25-Oct																
281	Coeliac, Narcolepsy	17-Oct	22-Oct																
307	Coeliac	17-Oct	20-Oct																
315	Coeliac, Narcolepsy, Birdshot Retinopathy	17-Oct	19-Oct				LUM				LUM				Yes		One Lambda		
317	Coeliac	22-Oct	01-Nov						Microarray	Microarray					Yes		Euroimmun	Microarray	
319	Coeliac	17-Oct	23-Oct																
331	Coeliac, Narcolepsy	17-Oct	24-Oct												Yes			Colourimetric	
333	Coeliac	23-Oct	26-Oct																
338	Coeliac	17-Oct	29-Oct																
339	Coeliac	17-Oct	19-Oct																
342	Coeliac	17-Oct	22-Oct																
347	Coeliac	24-Oct	31-Oct							SSP	SSP				Yes				
355	Coeliac	17-Oct	23-Oct																
359	Coeliac	17-Oct	19-Oct																
363	Coeliac	17-Oct	02-Nov																
413	Coeliac	17-Oct	24-Oct				SSOP			SSOP	SSOP				Yes		Fujirebio	Line probe assay	

\* Methods used  
 SSP = PCR-SSP  
 SSOP = PCR-SSOP  
 revSSOP = reverse SSOP  
 LUM = Luminex  
 RT PCR = Real Time PCR

### UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Coeliac Disease results - Assessed

Labs 11 - 223

Reference Type For Assessment	806/2018	807/2018	808/2018	809/2018	810/2018	Comments	
DRB1*	13:01, 13:03	15:01, -	04:01, 09:01	04:01, 07:01	04:01, 15:01		
DOA1*	01:03, 05:05	01:02, -	02:01, 03:02	02:01, 03:01	01:02, 03:03		
DOB1*	03:01, 06:03	06:02, -	02:02, 03:03	02:02, 03:02	03:01, 06:02		
Lab No.	HLA Alleles of interest						
11	HLA-DQ2 and DQ8(3) Negative DQ2, DQ8: DOA1*05	HLA-DQ2 and DQ8(3) Negative DQ2: NEGATIVE	HLA-DQ2 Positive DQ2: POSITIVE	HLA-DQ2 and DQ8(3) Positive DQ2: POSITIVE	HLA-DQ2 and DQ8(3) Negative DQ2: NEGATIVE		
17	HLA-DOA1*05:01, DOB1*02:01 HLA-DOA1*05:03, DOB1*03:02	HLA-DOA1*05:01, DOB1*02:01 Negative HLA-DOA1*05:03, DOB1*03:02 Negative	HLA-DOA1*05:01, DOB1*02:01 Negative HLA-DOA1*05:03, DOB1*03:02 Negative	HLA-DOA1*05:01, DOB1*02:01 Negative HLA-DOA1*05:03, DOB1*03:02 Positive	HLA-DOA1*05:01, DOB1*02:01 Positive HLA-DOA1*05:03, DOB1*03:02 Negative		
25	DOA1*05:01	DOA1*05:01	DOA1*05:01	DOA1*05:01	DOA1*05:01		
38	DOB1*02 and DOB1*03:02	DOB1*02, DOB1*03:02	DOB1*02, DOB1*03:02	DOB1*02, DOB1*03:02	DOB1*02, DOB1*03:02		
42	HLA-DQ						
78	DOA1, DOB1	DQ2 ABSENT, DQ8 ABSENT, DOA1*05 PRESENT	DQ2 ABSENT, DQ8 ABSENT, DOA1*05 ABSENT	DQ2 PRESENT, DQ8 PRESENT, DOA1*05 ABSENT	DQ2 ABSENT, DQ8 ABSENT, DOA1*05 ABSENT		
85	DOA1*05, DOB1*02, DOB1*03:02	DOA1*05 present DOB1*02 absent DOB1*03:02 absent	DOA1*05 absent DOB1*02 present DOB1*03:02 absent	DOA1*05 absent DOB1*02 present DOB1*03:02 present	DOA1*05 absent DOB1*02 absent DOB1*03:02 absent		
86	DQ2 and DQ8 associated DRB1*, DOA1*, DOB1*	<b>Coeliac disease-associated HLA alleles present: DOB1*03:01, DOA1*05:05 HLA-DQ2: PRESENT - HLA-DOA1*05 HLA-DQ8: ABSENT</b>	Coeliac disease-associated HLA alleles present: DOB1*02:02, DOA1*02:01, DRB1*07 HLA-DQ2: PRESENT - HLA-DQ2.2 HLA-DQ8: ABSENT	Coeliac disease-associated HLA alleles present: DOB1*02:02, DOB1*07:04, DRB1*07.04 HLA-DQ2: PRESENT - HLA-DQ2.2 HLA-DQ8: PRESENT - HLA-DQ8	HLA-DQ2: ABSENT HLA-DQ8: ABSENT	We report the genotype always as a coeliac associated haplotype and so even though other detectable alleles are present we do not report these. The haplotypes are associated with the serology in relation to DQ2 and DQ8.	
109	LinkSeq HLA- DQ2, DQ8, DOA1*05 (Strip)	DOX.X / DOX	DOX.X / DOX	DOX.X / DOB	DOX.X / DOX		
113	DQ2 and DQ8	DOA1*01:02, DOB1*06:03, DOA1*05:DOB1*03:01	DOA1*01:02, DOB1*06:02, -	DOA1*03:DOB1*03:02, DOA1*02:01/DOB1*02:02	DOA1*01:02, DOB1*06:02, DOA1*03:DOB1*03:01		
123	DOB1*02, DOB1*03:02	DOB1*03:01, DOB1*06	DOB1*06, -	DOB1*02, DOB1*03(9)	DOB1*03:01, DOB1*06		
124	DQ2 and DQ8	No HLA-DQ2 or DQ8	No HLA-DQ2 or DQ8	HLA-DQ2.2 positive and DQ8 positive	No HLA-DQ2 or DQ8		
126	DQ2.5 (DOA1*05, DOB1*02) DQ2.2 (DOA1*02, DOB1*02)	DQ2.5: Negative (DOA1*05: Positive, DOB1*02: Negative) DQ2.2: Negative (DOA1*02: Negative, DOB1*02: Negative)	DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Negative) DQ2.2: Negative (DOA1*02: Negative, DOB1*02: Negative)	DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Positive) DQ2.2: Positive (DOA1*02: Positive, DOB1*02: Positive)	DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Negative) DQ2.2: Negative (DOA1*02: Negative, DOB1*02: Negative)		
127	DQ8 (DOA1*03, DOB1*03:02) HLA-DQ2.2 HLA-DQ2.5 HLA-DQ8	DQ8: Negative (DOA1*03: Negative, DOB1*03:02: Negative) HLA-DQ2.2 negative HLA-DQ2.5 negative HLA-DQ8 negative	DQ8: Negative (DOA1*03: Negative, DOB1*03:02: Negative) HLA-DQ2.2 negative HLA-DQ2.5 negative HLA-DQ8 negative	DQ8: Negative (DOA1*03: Positive, DOB1*03:02: Negative) HLA-DQ2.2 positive HLA-DQ2.5 negative HLA-DQ8 negative	DQ8: Negative (DOA1*03: Positive, DOB1*03:02: Positive) HLA-DQ2.2 negative HLA-DQ2.5 positive HLA-DQ8 negative		
129	DOB1*02, DOB1*03:02, DOA1*05	Negative for DOB1*02 and DOB1*03:02.	Negative for DOB1*02 and DOB1*03:02.	Positive for DOB1*02 but negative for DOA1*05.	Negative for DOB1*02 and DOB1*03:02. Very low risk for CD		
142	HLA-DOA1*05, HLA-DOB1*02 and HLA-DOB1*03:02 (DQ8)	HLA-DOA1*05 present HLA-DOB1*02 absent HLA-DOB1*03:02 (DQ8) absent	HLA-DOA1*05 absent HLA-DOB1*02 absent HLA-DOB1*03:02 (DQ8) absent	HLA-DOA1*05 absent HLA-DOB1*02 present HLA-DOB1*03:02 (DQ8) present	HLA-DOA1*05 absent HLA-DOB1*02 absent HLA-DOB1*03:02 (DQ8) absent		
154	HLA-DOA1*, and HLA-DOB1* are typed to the 4-digit level to determine whether HLA-DQ2 is coded by DOA1*05:01, DOB1*02:01 ; HLA-DQ2 is coded by DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 ; HLA-DQ8 is coded by DOA1*03:01, DOB1*03:02	HLA-DOA1*01:03/01:14,*05:05 HLA-DOB1*03:01,*06:03  Result : haplotype DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : absence DOA1*05 : positive; DOA1*03 : negative; DOB1*02 : negative; DOB1*03:02 : negative HLA-DOA1*05	HLA-DOA1*01:03/01:14,*05:05 HLA-DOB1*06:02,*.  Result : haplotype DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : absence DOA1*05 : negative; DOA1*03 : negative; DOB1*02 : negative; DOB1*03:02 : negative none of the analyzed HLA alleles	HLA-DOA1*02:01, DOB1*02:02, DOA1*03/DOB1*03:03 <b>DOB1*07, DOB1*03:03</b> HLA-DQ2.2 positive and DQ8 could not be clearly detected DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Positive) DQ2.2: Positive (DOA1*02: Positive, DOB1*02: Positive) DQ8: Negative (DOA1*03: Positive, DOB1*03:02: Negative) HLA-DQ2.2 positive HLA-DQ2.5 negative HLA-DQ8 negative	HLA-DOA1*03:DOB1*03:02, DOA1*02:01/DOB1*02:02 DOB1*02, DOB1*03(9) HLA-DQ2.2 positive and DQ8 positive DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Positive) DQ2.2: Positive (DOA1*02: Positive, DOB1*02: Positive) DQ8: Positive (DOA1*03: Positive, DOB1*03:02: Positive) HLA-DQ2.2 positive HLA-DQ2.5 negative HLA-DQ8 positive	HLA-DOA1*01:02, DOB1*06:02, DOA1*03:DOB1*03:01 DOB1*03:01, DOB1*06 No HLA-DQ2 or DQ8 DQ2.5: Negative (DOA1*05: Negative, DOB1*02: Negative) DQ2.2: Negative (DOA1*02: Negative, DOB1*02: Negative) DQ8: Negative (DOA1*03: Positive, DOB1*03:02: Negative) HLA-DQ2.2 negative HLA-DQ2.5 positive HLA-DQ8 negative	
159	DOA1*03; DOA1*05; DOB1*02 and DOB1*03:02	HLA-DOA1*03, HLA-DOA1*05, HLA-DOB1*02, HLA-DOB1*03:02, HLA-DOB1*03:03	DOA1*05: positive; DOA1*03 : negative; DOB1*02 : negative; DOB1*03:02 : negative	HLA-DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : presence DOA1*05 : negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03, HLA-DOB1*02, HLA-DOB1*03:02	HLA-DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : absence DOA1*05 : negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03		
173	HLA-DOA1*03, HLA-DOA1*05, HLA-DOB1*02, HLA-DOB1*03:02, HLA-DOB1*03:03	DOA1*05: positive; DOA1*03 : negative; DOB1*02 : negative; DOB1*03:02 : negative	DOA1*05: negative; DOA1*03 : negative; DOB1*02 : negative; DOB1*03:02 : negative	HLA-DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : presence DOA1*05 : negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03, HLA-DOB1*02, HLA-DOB1*03:02	HLA-DOA1*05:01, DOB1*02:01 : absence haplotypes DOA1*05:05, DOB1*03:01 and DOA1*02:01, DOB1*02:02 : absence haplotype DOA1*03:01, DOB1*03:02 : presence DOA1*05 : negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03		
176	DOA1*05, DOB1*02, DOB1*03:02	DOA1*05:01:XX, DOA1*05:05: DOB1*03:01, DOB1*06:XX	DOA1*05:01:XX, DOB1*06:XX	DOA1*05:01, DOB1*02:01, DOB1*03:02, DOB1*03:03	DOA1*05:01, DOB1*02:01, DOB1*03:02, DOB1*03:03		
185	DOB1, DOA1	DOB1*03:02: negative	DOB1*03:02: negative	DOB1*03:02: negative	DOB1*03:02: negative		
201	HLA-DOB1*03:02, HLA-DOA1*05, HLA-DOB1*02, HLA-DOA1*02	DOA1*05: positive DOB1*02: negative DOA1*02: negative Reported serotype: DQ7.5	DOA1*05: negative DOB1*02: negative DOA1*02: positive Reported serotype: DQ2.2	DOA1*05: negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03 pos, DOA1*05 neg, DOB1*02 pos, DOB1*03:02 neg	DOA1*05: negative; DOA1*03 : positive; DOB1*02 : positive; DOB1*03:02 : positive HLA-DOA1*03 pos, DOA1*05 neg, DOB1*02 pos, DOB1*03:02 neg		
223	DOA1*02, DOA1*03, DOA1*05, DOB1*02, DOB1*03:02 neg	DOA1*02 neg, DOA1*03 neg, DOA1*05 pos, DOB1*02 neg, DOB1*03:02 neg	DOA1*02 neg, DOA1*03 neg, DOA1*05 neg, DOB1*02 neg, DOB1*03:02 neg	DOA1*02 pos, DOA1*03 pos, DOA1*05 neg, DOB1*02 pos, DOB1*03:02 pos	DOA1*02 neg, DOA1*03 pos, DOA1*05 neg, DOB1*02 neg, DOB1*03:02 neg		

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Coeliac Disease results - Assessed		Labs 224-413				
Reference Type For Assessment	806/2018	807/2018	808/2018	809/2018	810/2018	
Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	
HLA Alleles of interest	13:01; 13:03 01:03, 05:05 03:01, 06:03	15:01;- 01:02;- 06:02;-	07:01; 09:01 02:01; 03:02 02:02; 03:03	04:01; 07:01 02:01; 03:01 02:02; 03:02	04:01; 15:01 01:02; 03:03 03:01; 06:03	
224	HLADQ2trans hp2, HLADQ8 HLA-DQB1*02 HLA-DQA1*05	HLA-DQA1*02: negatv HLA-DQA1*03: negatv HLA-DQA1*02*03:01: negatv HLA-DQA1*03:02/03: negatv HLA-DQA1*05: positv HLA-DQB1*02: negatv HLA-DQB1*03:02: neqativ no specific coeliac disease predicting haplotype detected	HLA-DQB1*02: negatv HLA-DQB1*03:02(DQ8) : negatv, DQA1*05 : negatv HLA-DQ2 negative, HLA-DQ8 negative DQA1*01*05 ; DQB1*03*06 (DQB1*03 serological equivalent: DQ7) DQA1*05 POS, DQB1*02 NEG, DQB1*0302 NEG HLA-DQA1*0201 absent, HLA-DQA1*03 absent, HLA-DQA1*05 present, HLA-DQB1*02 absent, HLA-DQB1*0302 absent	DOB1*02(DQ2) : POSITIVE, DOB1*03:02(DQ8) : negatv, DQA1*05 : negatv HLA-DQ2 positive, HLA-DQ8 negative DQA1*02*03 ; DQB1*02*03 (DQB1*03 serological equivalent: DQ9) DQA1*05 NEG, DQB1*02 POS, DQB1*0302 NEG HLA-DQA1*0201 present, HLA-DQA1*03 present, HLA-DQA1*05 absent, HLA-DQB1*02 present (in heterozygosis), HLA-DQB1*0302 absent	DOB1*02(DQ2) : POSITIVE, DOB1*03:02(DQ8) : POSITIVE, DQA1*05 : negatv HLA-DQ2 positive, HLA-DQ8 positive DQA1*02*03 ; DQB1*02*03 (DQB1*03 serological equivalent: DQ8) DQA1*05 NEG, DQB1*02 POS, DQB1*0302 POS HLA-DQA1*0201 present, HLA-DQA1*03 present, HLA-DQA1*05 absent, HLA-DQB1*02 present, HLA-DQB1*0302 present	DOB1*02(DQ2) : negatv, DOB1*03:02(DQ8) : negatv, DQA1*05 : negatv HLA-DQ2 negative, HLA-DQ8 negative DQA1*01*03 ; DQB1*03*06 (DQB1*03 serological equivalent: DQ7) DQA1*05 NEG, DQB1*02 NEG, DQB1*0302 NEG HLA-DQA1*0201 absent, HLA-DQA1*03 present, HLA-DQA1*05 present, HLA-DQB1*02 absent, HLA-DQB1*0302 absent
225	DQA1*02, DQA1*03, DQA1*05, DQB1*02, DQB1*03:02	DQA1*01*05 ; DQB1*03*06 (DQB1*03 serological equivalent: DQ7) DQA1*05 POS, DQB1*02 NEG, DQB1*0302 NEG	DQA1*01*05 ; DQB1*03*06 (DQB1*03 serological equivalent: DQ9) DQA1*05 NEG, DQB1*02 POS, DQB1*0302 NEG	DQA1*02*03 ; DQB1*02*03 (DQB1*03 serological equivalent: DQ8) DQA1*05 NEG, DQB1*02 POS, DQB1*0302 POS	DQA1*01*03 ; DQB1*03*06 (DQB1*03 serological equivalent: DQ7) DQA1*05 NEG, DQB1*02 NEG, DQB1*0302 NEG	
245	DQA1*05, DQB1*02, DQB1*03:02	DQA1*05 POS, DQB1*02 NEG, DQB1*0302 NEG	DQA1*05 NEG, DQB1*02 POS, DQB1*0302 NEG	DQA1*05 NEG, DQB1*02 POS, DQB1*0302 POS	DQA1*05 NEG, DQB1*02 NEG, DQB1*0302 NEG	
255	Coeliac Disease	HLA-DQA1*0201 absent, HLA-DQA1*03 absent, HLA-DQA1*05 present, HLA-DQB1*02 absent, HLA-DQB1*0302 absent	HLA-DQA1*0201 present, HLA-DQA1*03 present, HLA-DQA1*05 absent, HLA-DQB1*02 present (in heterozygosis), HLA-DQB1*0302 absent	HLA-DQA1*0201 present, HLA-DQA1*03 present, HLA-DQA1*05 absent, HLA-DQB1*02 present, HLA-DQB1*0302 present	HLA-DQA1*0201 absent, HLA-DQA1*03 present, HLA-DQA1*05 present, HLA-DQB1*02 absent, HLA-DQB1*0302 absent	
269	HLA-DQA1*02, HLA-DQA1*02*03:01, HLA-DQA1*03, HLA-DQA1*03:02/03, HLA-DQA1*05, HLA-DQB1*02, HLA-DQB1*03:02	HLA-DQA1*02: negatv HLA-DQA1*03: negatv HLA-DQA1*02*03:01: negatv HLA-DQA1*03:02/03: negatv HLA-DQA1*05: positv HLA-DQB1*02: negatv HLA-DQB1*03:02: neqativ no specific coeliac disease predicting haplotype detected	HLA-DQA1*02: negatv HLA-DQA1*03: negatv HLA-DQA1*02*03:01: negatv HLA-DQA1*03:02/03: negatv HLA-DQA1*05: negatv HLA-DQB1*02: negatv HLA-DQB1*03:02: neqativ no specific coeliac disease predicting haplotype detected	HLA-DQA1*02: positv HLA-DQA1*03: positv HLA-DQA1*02*03:01: positv HLA-DQA1*03:02/03: positv HLA-DQA1*05: negatv HLA-DQB1*02: positv HLA-DQB1*03:02: neqativ HLADQ2trans.haplotyp2 carrier (detected: DQA1*02, DQBQ*02, DRB1*07)	HLA-DQA1*02: positv HLA-DQA1*03: positv HLA-DQA1*02*03:01: positv HLA-DQA1*03:02/03: negatv HLA-DQA1*05: negatv HLA-DQB1*02: positv HLA-DQB1*03:02: positv HLADQ2trans haplotype 2 carrier AND HLA DQ8 (detected: DQA1*02, DQB1*02, DRB1*07, DQA1*03, DQB1*03:02, DRB1*04)	HLA-DQA1*02: negatv HLA-DQA1*03: positv HLA-DQA1*02*03:01: negatv HLA-DQA1*03:02/03: positv HLA-DQA1*05: negatv HLA-DQB1*02: negatv HLA-DQB1*03:02: negatv no specific coeliac disease predicting haplotype detected
274	HLADQ2cis, HLADQ2 trans, HLA DQ2trans hp1, HLA-DQB1*02 HLA-DQB1*03:02 HLA-DQA1*05	HLA-DQB1*02 negatv HLA-DQB1*03:02 negatv HLA-DQA1*05 positv	HLA-DQB1*02 positv HLA-DQB1*03:02 negatv HLA-DQA1*05 negatv	HLA-DQB1*02 positv HLA-DQB1*03:02 negatv HLA-DQA1*05 negatv	HLA-DQB1*02 negatv HLA-DQB1*03:02 negatv HLA-DQA1*05 negatv	
278	DQA1*02, DQA1*02*03:01, DQA1*03, DQA1*03:02/03, DQA1*05, DQB1*02, DQB1*02*03:02	Alpha-subunit HLA-DQ2.2 Negative, Alpha-subunit HLA-DQ2.5 Positive, Alpha-subunit HLA-DQ8 Negative, Beta-subunit HLA-DQ2.2/2.5 Negative Beta-subunit HLA-DQ8 Negative Conclusion (genotypes): HLA-DQ2.2 - Negative, HLA-DQ2.5-Negative, HLA-DQ8-Negative.	Alpha-subunit HLA-DQ2.2 Positive, Alpha-subunit HLA-DQ2.5 Negative, Alpha-subunit HLA-DQ8 Positive Beta-subunit HLA-DQ2.2/2.5 Positive Beta-subunit HLA-DQ8 Negative Conclusion (genotypes): HLA-DQ2.2 - Positive, HLA-DQ2.5-Negative, HLA-DQ8-Negative.	Alpha-subunit HLA-DQ2.2 Positive, Alpha-subunit HLA-DQ2.5 Negative, Alpha-subunit HLA-DQ8 Positive Beta-subunit HLA-DQ2.2/2.5 Positive Beta-subunit HLA-DQ8 Positive Conclusion (genotypes): HLA-DQ2.2 - Positive, HLA-DQ2.5-Negative, HLA-DQ8-Positive.	Alpha-subunit HLA-DQ2.2 Negative, Alpha-subunit HLA-DQ2.5 Negative, Alpha-subunit HLA-DQ8 Positive Beta-subunit HLA-DQ2.2/2.5 Negative Beta-subunit HLA-DQ8 Negative Conclusion (genotypes): HLA-DQ2.2 - Negative, HLA-DQ2.5-Negative, HLA-DQ8-Negative.	
279	DRB1*03:04, 07, 11 DOB1*02:01:02:02; 03:03; 02:05; 02:06; 02:07; 03:01; 03:02 03:03; 03:04; 04:01; 04:02 05:01; 06:01; 06:02; 06:03 DQA1*02:01*03:01; 05:01; 05:02; 05:03; 05:04; 05:05 DQB1*02, DQB1*03, DQA1*02, DQA1*03, DQA1*05.	DOB1*06:01 no known association with coeliac disease	DRB1*07; DQB1*02:02; 03:03; DQA1*02:01*03:01 positive association with coeliac disease (DQA1*02:01-DQB1*02:02 type)	DRB1*04; 07; DQB1*02:02; 03:02; DQA1*02:01*03:01 positive association with coeliac disease (DQA1*02:01-DQB1*02:02 type and DQA1*03:01-DQB1*03:02 type)	DRB1*04; DQB1*03:01; 05:01; DQA1*03:01 no known association with coeliac disease	
281	DQA1-DQB1	DQA1*01*05; DQB1*03*06	DQA1*02*01; 03:02; DQB1*02*03	DQA1*02*01; 03:01; DQB1*02*03:02	DQA1*01*03; DQB1*03*06	
315	DQ2 and DQ8	DQ2, 6 Negative	DQ2, 9 Positive for HLA-DQ2.2	DQ2, 8 Positive for HLA-DQ2.2 and HLA-DQ8	DQ6, 7 Negative	
317	HLA-DQ2.2, HLA-DQ2.5, HLA-DQ8	DQ2: NEG DQ8: NEG (A1*05: POS, B1*02: NEG, B1*0302: NEG)	DQ2: NEG DQ8: NEG (A1*05: NEG, B1*02: NEG, B1*0302: NEG)	DQ2: NEG DQ8: POS (A1*05: NEG, B1*02: POS, B1*0302: POS)	DQ2: NEG DQ8: NEG (A1*05: NEG, B1*02: NEG, B1*0302: NEG)	
319	DQA1*05, DQB1*02, DQB1*03:02	DQB1*03:01/03:13, DQB1*05:03	DQB1*02:02; DQB1*03:03	DQB1*02:02; DQB1*03:02	DQB1*03:01/03:13, DQB1*05:02/06:11	
331	DQA1*05, DQA1*02, DQA1*03, DQB1*02, DQB1*03:01, DQB1*03:02, DRB1*11, DRB1*12, DRB1*07, DRB1*04	DQA1*05, DQB1*03:01, DRB1*11, DRB1*12, DRB1*07, DRB1*04	DQA1*05, DQB1*03:01, DRB1*11, DRB1*12, DRB1*07, DQA1*03	DQB1*02, DQA1*02, DRB1*07, DQA1*03, DQB1*03:02, DRB1*04	DQB1*03:01/03:13, DQB1*05:02/06:11, DQB1*03:01, DQA1*03, DRB1*04	
338	HLA-DQA1 ; HLA-DQB1 ; HLA-DRB1 PROTRANS HLA Coeliac Disease Domino System Kit	DQA1*05:05, DQB1*03:01, DRB1*11 (DQ7.5) Presence of HLA haplotype not associated with Coeliac Disease according to ESPGHAN guideline . No HLA risk of CD development.	DQA1*05:05, DQB1*03:01, DRB1*11, DRB1*12, DRB1*07, DQA1*03 Absence of susceptibility haplotype for Coeliac Disease . No HLA risk of CD development .	DQA1*02:01; 03:01 ; DQB1*02:02; 03:02 ; DRB1*04; 07 Coeliac Disease predisposing HLA-DQ types. The presence of the heterodimers DQ8 (DQA1*03;DQB1*03:02) and DQ2.2 (DR7-DQ2) is indicative of susceptibility to CD but it does not imply the development of the disease whose diagnosis must be verified by clinical methods.	DQA1*03:02/03 ; DQB1*03:01; DRB1*04 Presence of HLA haplotype not associated with Coeliac Disease according to ESPGHAN guideline .	
339	DQA1*05, DQB1*02, DQB1*03:02	Found DQA105 positive, but a genetic predisposition for Coeliac Disease is unlikely DQA1*01, DQA1*05 DQB1*06, DQB1*03:01	Found DQA105 negative, DQB102 negative and DQB10302 negative, therefore is a genetic predisposition for Coeliac Disease unlikely DQA1*01 DQB1*06:02	Found DQB102 positive, but a genetic predisposition for Coeliac Disease is unlikely DQA1*03, DQA1*02 DQB1*03:03, DQB1*02	Found DQA105 negative, DQB102 negative and DQB10302 negative, therefore is a genetic predisposition for Coeliac Disease unlikely DQA1*01, DQA1*03 DQB1*06:02, DQB1*03:01	
342	DQA1*01, DQA1*02, DQA1*03, DQA1*04, DQA1*05, DQA1*06 DQB1*02, DQB1*03:01, DQB1*03:02, DQB1*03:03, DQB1*03:04, DQB1*03:05, DQB1*04, DQB1*05, DQB1*06, DQB1*06:02	HLA-DQ2.5-negative, HLA-DQ2.2-negative, HLA-DQ8-negative HLA-DQ2/DQ8 not detected	HLA-DQ2.5-negative, HLA-DQ2.2-negative, HLA-DQ8-negative HLA-DQ2/DQ8 not detected	HLA-DQ2.5-negative, HLA-DQ2.2-positive, HLA-DQ8-negative HLA-DQ2 detected	HLA-DQ2.5-negative, HLA-DQ2.2-negative, HLA-DQ8-negative HLA-DQ2/DQ8 not detected	
347	HLA-DQ2.2, HLA-DQ2.5, HLA-DQ8	PRESENZA DEL SOLO ALLELE A RISCHIO: DQA1*05 (PRESENCE OF THE RISK ALLELE ONLY: DQA1*05)	DQ2.2 Alleli rilevati: DQA1*02, DQA1*03, DQA1*03:02/03, DQB1*02 (DQ2.2 Alleles detected: DQA1*02, DQA1*03, DQA1*03:02/03, DQB1*02)	HLA-DQ2.5-negative, HLA-DQ2.2-positive, HLA-DQ8-positive HLA-DQ2 and HLA-DQ8 detected	PRESENZA DEL SOLO ALLELE A RISCHIO: DQA1*03 PRESENZA DELL' ALLELE: DQA1*03:02/03 (PRESENCE OF THE ONLY AT RISK: DQA1*03 (PRESENCE OF THE ALLELE: DQA1*03:02/03 *) HLA DQ2: Absent ; HLA DQ8: Absent	
355	DQA1*05, DQA1*03, DQA1*02, DQA1*03:01, DQA1*03:02/03, DQA1*03:03, DQB1*02, DQB1*03:02	HLA DQ2: Absent ; HLA DQ8: Absent	HLA DQ2: Absent ; HLA DQ8: Absent	HLA DQ2: Present ; HLA DQ8: Absent	HLA DQ2: Absent ; HLA DQ8: Absent	
359	DQA1*05, DQA1*03, DQA1*02, DQA1*03:01, DQA1*03:02/03, DQA1*03:03, DQB1*02, DQB1*03:02	DQ2 and DQ8 absent (DQA1*05:05; DQB1*03:01)	DQ2 and DQ8 absent	DQ2 present (DQA1*02:01, DQA1*03; DQB1*02:02; DRB1*07)	DQ2 and DQ8 present (DQA1*02:01, DQA1*03; DQB1*03:02; DRB1*04)	
363	DQA1*02, DQA1*02*03:01, DQA1*03, DQA1*03:02/03, DQA1*05, DQB1*02, DQB1*02*03:02	HLA DQ2: Absent ; HLA DQ8: Absent	HLA DQ2: Present ; HLA DQ8: Absent	HLA DQ2: Present ; HLA DQ8: Present	HLA DQ2: Absent ; HLA DQ8: Absent	
413	DQ2, DQ8 based on the results of DQA1*05:01; DQA1*05:05; DQA1*02:01; DQA1*03; DQB1*02:01; DQB1*02:02; DQB1*03:02; DRB1*	DQ2 and DQ8 absent (DQA1*05:05; DQB1*03:01)	DQ2 and DQ8 absent	DQ2 present (DQA1*02:01, DQA1*03; DQB1*02:02; DRB1*07)	DQ2 and DQ8 present (DQA1*02:01, DQA1*03; DQB1*03:02; DRB1*04)	

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Coeliac Disease - interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
11	Alleles known to be associated with coeliac disease (HLA-DQ2 and DQ8(3)) not present.	Alleles known to be associated with coeliac disease (HLA-DQ2 and DQ8(3)) not present.	The presence of HLA-DQ2 is associated with, but not diagnostic for, coeliac disease. HLA-DQ2 is present in about 21% of caucasians in the normal population.	The presence of HLA-DQ2 and DQ8(3) is associated with, but not diagnostic for, coeliac disease. HLA-DQ2 and DQ8(3) are present in about 21% and 10% respectively of caucasians in the normal population.	Alleles known to be associated with coeliac disease (HLA-DQ2 and DQ8(3)) not present.	
12	This genotype is not associated with genetic susceptibility for coeliac disease.	This genotype is not associated with genetic susceptibility for coeliac disease	This patient is negative for both the DQA1*05/DQB1*02 heterodimer and DQ8(DQB1*03:02) which are present in over 95% patients with coeliac disease. However, this patient is positive for DQB1*02, which comprises one half of the DQA1*05/DQB1*02 heterodimer, present in 2-5% of patients with coeliac disease. This genotype has been associated with genetic susceptibility for coeliac disease.	This genotype is associated with genetic susceptibility for coeliac disease.	This genotype is not associated with genetic susceptibility for coeliac disease	
17	The major association for Coeliac disease involves the haplotype: DQA1*05:01 – DQB1*02:01 (DQ2) and a minority of cases with the haplotype: DQA1*03:01 – DQB1*03:02 (DQ8). (Nature Reviews Immunology 2002;2:647). This patient is NEGATIVE for the DQA1*05:01-DQB1*02:01 (DQ2) haplotype and DQA1*03-DQB1*03:02 (DQ8) haplotype. This patient has no genetic risk of having or developing coeliac disease.	The major association for Coeliac disease involves the haplotype: DQA1*05:01 – DQB1*02:01 (DQ2) and a minority of cases with the haplotype: DQA1*03:01 – DQB1*03:02 (DQ8). (Nature Reviews Immunology 2002;2:647). This patient is NEGATIVE for the DQA1*05:01-DQB1*02:01 (DQ2) haplotype and DQA1*03-DQB1*03:02 (DQ8) haplotype. This patient has no genetic risk of having or developing coeliac disease.	The major association for Coeliac disease involves the haplotype: DQA1*05:01 – DQB1*02:01 (DQ2) and a minority of cases with the haplotype: DQA1*03:01 – DQB1*03:02 (DQ8). (Nature Reviews Immunology 2002;2:647). This patient is NEGATIVE for the DQA1*05:01-DQB1*02:01 (DQ2) haplotype and DQA1*03-DQB1*03:02 (DQ8) haplotype. This patient has no genetic risk of having or developing coeliac disease.	The major association for Coeliac disease involves the haplotype: DQA1*05:01 – DQB1*02:01 (DQ2) and a minority of cases with the haplotype: DQA1*03:01 – DQB1*03:02 (DQ8). (Nature Reviews Immunology 2002;2:647). This patient is POSITIVE for the DQA1*03-DQB1*03:02 (DQ8) haplotype and has a moderate genetic risk of having or developing coeliac disease.	The major association for Coeliac disease involves the haplotype: DQA1*05:01 – DQB1*02:01 (DQ2) and a minority of cases with the haplotype: DQA1*03:01 – DQB1*03:02 (DQ8). (Nature Reviews Immunology 2002;2:647). This patient is POSITIVE for the DQA1*05:01-DQB1*02:01 (DQ2) haplotype and has a high genetic risk of having or developing coeliac disease.	
25	This patient is DQ2 and DQ8 negative	This patient is DQ2 and DQ8 negative	This patient is DQ2.2 positive, heterozygous. This patient is DQ2 positive which is associated with Coeliac Disease	This patient is DQ2.2 and DQ8 positive. This patient is DQ2 and DQ8 positive which is associated with Coeliac Disease	This patient is DQ2 and DQ8 negative	
38	This individual carries DQA1*05:05 and DQB1*03:01 which have shown a weak association with Coeliac disease (Very low risk).	This individual does not carry the HLA-DQ variants associated with Coeliac disease.	This individual carries the HLA-DQB1*02:02 (DQ2) variant that has a weak association with Coeliac disease (Low risk).	This individual carries the HLA-DQB1*03:02 (DQ8) variant that has an association with Coeliac disease (High risk).	This individual does not carry the HLA-DQ variants associated with Coeliac disease.	
42	This patient is NEGATIVE for HLA-DQ2 (but is DQA1*05 POSITIVE) and NEGATIVE for HLA-DQ8 (DQA1*03, DQB1*03:02). Patients with this genotype have a LOW RISK of predisposition to Coeliac disease	This patient is NEGATIVE for HLA-DQ2 (and is DQA1*05 NEGATIVE) and NEGATIVE for HLA-DQ8 (DQA1*03, DQB1*03:02). Patients with this genotype have a LOW RISK of predisposition to Coeliac disease	This patient is Heterozygous POSITIVE (single dose) for HLA-DQ2 (but is DQA1*05 NEGATIVE) and NEGATIVE for HLA-DQ8 (DQA1*03, DQB1*03:02). Patients with this genotype have a LOW RISK of predisposition to Coeliac disease	This patient is POSITIVE for HLA-DQ2 (but is DQA1*05 NEGATIVE) and POSITIVE for HLA-DQ8 (DQA1*03, DQB1*03:02). Patients with this genotype have a HIGH RISK of predisposition to Coeliac disease though other factors are likely involved	This patient is NEGATIVE for HLA-DQ2 (and is DQA1*05 NEGATIVE) and NEGATIVE for HLA-DQ8 (DQA1*03, DQB1*03:02). Patients with this genotype have a LOW RISK of predisposition to Coeliac disease	
78	This genotype is associated with an extremely low genetic susceptibility for coeliac disease. In the appropriate context, further clinical work-up for coeliac disease could be considered.	This genotype can support an exclusion of coeliac disease as the likelihood of coeliac disease is <1%. This test has a strong negative predictive value and therefore coeliac disease is highly unlikely.	This genotype is associated with genetic susceptibility for coeliac disease. The presence of this at-risk genotype supports but does not confirm a diagnosis of coeliac disease without supportive evidence from coeliac serology and/or small intestinal histology.	This genotype is associated with genetic susceptibility for coeliac disease. The presence of an at-risk genotype supports but does not confirm a diagnosis of coeliac disease without supportive evidence from coeliac serology and/or small intestinal histology.	This genotype can support an exclusion of coeliac disease as the likelihood of coeliac disease is <1%. This test has a strong negative predictive value and therefore coeliac disease is highly unlikely.	
85	This individual does not have the HLA-DQ variants commonly associated with coeliac disease. This assay tests for the presence of HLA-DQ2 (DQA1*05/DQB1*02) and HLA-DQ8 (DQB1*03:02) which are found in more than 97% of patients with coeliac disease. 2-3% patients with coeliac disease have a rare genotype that is not detected by this assay.	This individual does not have the HLA-DQ variants commonly associated with coeliac disease. This assay tests for the presence of HLA-DQ2 (DQA1*05/DQB1*02) and HLA-DQ8 (DQB1*03:02) which are found in more than 97% of patients with coeliac disease. 2-3% patients with coeliac disease have a rare genotype that is not detected by this assay.	This individual does not have the HLA-DQ variants commonly associated with coeliac disease. This assay tests for the presence of HLA-DQ2 (DQA1*05/DQB1*02) and HLA-DQ8 (DQB1*03:02) which are found in more than 97% of patients with coeliac disease. 2-3% patients with coeliac disease have a rare genotype that is not detected by this assay.	This individual has one of the HLA-DQ variants associated with coeliac disease. More than 97% of coeliac disease patients carry the HLA-DQ2 or HLA-DQ8 alleles assessed in this assay. However, these variants are also present in approximately 40% of the general population and therefore whilst possession of the variant can support a diagnosis of coeliac disease it is not per se diagnostic of the condition.	This individual does not have the HLA-DQ variants commonly associated with coeliac disease. This assay tests for the presence of HLA-DQ2 (DQA1*05/DQB1*02) and HLA-DQ8 (DQB1*03:02) which are found in more than 97% of patients with coeliac disease. 2-3% patients with coeliac disease have a rare genotype that is not detected by this assay.	

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Coeliac Disease - Interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
86	HLA-DQA1*05, which is associated with a very low genetic susceptibility for coeliac disease (CD), has been detected in this patient. This allele alone has been infrequently associated with CD and as the conferred risk, if present at all, appears to be very low, further clinical work-up for CD should be considered only in the appropriate clinical context. As 25-30% of the general population has one of the CD-associated HLA alleles encoding DQ2 and/or DQ8 and only 3% of these individuals develop coeliac disease, identification of a CD-associated HLA allele is not diagnostic of CD. The presence of DQ2 and/or DQ8 increases the likelihood that the patient has CD but a diagnosis must be based on clinical findings, serum antibody detection tests and/or intestinal biopsy.	The HLA-DQ2 and DQ8 genotypes associated with coeliac disease (CD) have not been detected in this patient. This result makes a diagnosis of CD very unlikely. Coeliac disease patients that do not carry either DQ2 or DQ8 are very rare (<1%).	HLA-DQ2.2, which is associated with low genetic susceptibility for coeliac disease (CD), has been detected in heterozygous form in this patient. As 25-30% of the general population has one of the CD-associated HLA alleles encoding DQ2 and/or DQ8 and only 3% of these individuals develop coeliac disease, identification of a CD-associated HLA allele is not diagnostic of CD. The presence of DQ2 and/or DQ8 increases the likelihood that the patient has CD but a diagnosis must be based on clinical findings, serum antibody detection tests and/or intestinal biopsy.	HLA-DQ2.2 and HLA-DQ8, which are associated with moderate genetic susceptibility for coeliac disease (CD), have been detected in this patient. As 25-30% of the general population has one of the CD-associated HLA alleles encoding DQ2 and/or DQ8 and only 3% of these individuals develop coeliac disease, identification of a CD-associated HLA allele is not diagnostic of CD. The presence of DQ2 and/or DQ8 increases the likelihood that the patient has CD but a diagnosis must be based on clinical findings, serum antibody detection tests and/or intestinal biopsy.	The HLA-DQ2 and DQ8 genotypes associated with coeliac disease (CD) have not been detected in this patient. This result makes a diagnosis of CD very unlikely. Coeliac disease patients that do not carry either DQ2 or DQ8 are very rare (<1%).	We report the genotype always as a coeliac associated haplotype and so even though other detectable alleles are present we do not report these. The haplotypes are associated with the serology in relation to DQ2 and DQ8.
109	The Patient has NO HLA-associated risk for Coeliac Disease.	The Patient has NO HLA-associated risk for Coeliac Disease.	The Patient has NO HLA-associated risk for Coeliac Disease.	The Patient has an HLA-associated risk for Coeliac Disease.	The Patient has NO HLA-associated risk for Coeliac Disease.	
113	The patient does not have any of the HLA antigen (DQ2 or DQ8) associated with the development of coeliac disease.	The patient does not have any of the HLA antigen (DQ2 or DQ8) associated with the development of coeliac disease.	Presence of DQB1*02 but it's not associated to DQA1*05. This phenotype confers a weak risk of coeliac disease.	Presence of DQ2/DQ8 associated with high risk of coeliac disease.	The patient does not have any of the HLA antigen (DQ2 or DQ8) associated with the development of coeliac disease.	
123	Patient without genetic risk of having coeliac disease	Patient without genetic risk of having coeliac disease	Patient with moderate / low genetic risk 1/550 of having coeliac disease In the European guidelines for coeliac disease diagnostics, only the subtype HLA-DQ2.5 is specified as being disease-associated. The beta-subunit of DQ8 could not be clearly detected in this case due to the positive result for DQB1*02. HLA-DQA1*03:01, which solely represents the alphasubunit of DQ8 according to the ESPGHAN guidelines, was not detected in the sample.	Patient with high genetic risk 1/40 of having coeliac disease In the European guidelines for coeliac disease diagnostics, only the subtype HLA-DQ2.5 is specified as being disease-associated	Patient without genetic risk of having coeliac disease	
124						
126	The patient does not have any of the HLA antigen (DQ2.5, DQ2.2 or DQ8) associated with development of coeliac disease.	The patient does not have any of the HLA antigen (DQ2.5, DQ2.2 or DQ8) associated with development of coeliac disease.	The patient is positive for DQ2.2, this HLA type is associated with coeliac disease.	The patient is positive for DQ2.2 and DQ8, this HLA type is associated with coeliac disease.	The patient does not have any of the HLA antigen (DQ2.5, DQ2.2 or DQ8) associated with development of coeliac disease.	
127						
129	Very low risk for CD	Very low risk for CD	Low risk for CD	Low risk for CD	Very low risk for CD	
142	Absence of HLA genetic factor (DQ2 and DQ8) associated with coeliac disease.	Absence of HLA genetic factor (DQ2 and DQ8) associated with coeliac disease.	Presence of the HLA-DQB1 * 02 allele (DQ2) but absence of the HLA-DQA1 * 05 and DQB1 * 03: 02 (DQ8) alleles. Low risk of susceptibility to coeliac disease.	Presence of the HLA-DQB1 * 03: 02 (DQ8) and DQB1 * 02 (DQ2) alleles and absence of the HLA-DQA1 * 05 allele. High risk of susceptibility to coeliac disease.	Absence of HLA genetic factor (DQ2 and DQ8) associated with coeliac disease.	
154	The diagnosis of coeliac disease is very unlikely in the absence of HLA-DQ2 and HLA-DQ8 antigens. >95% of coeliac disease patients express HLA-DQ2 encoded by DQA1*05:01, DQB1*02:01 or DQA1*05:05, DQB1*03:01 and DQA1*02:01, DQB1*02:02. 5% of coeliac disease patients express HLA-DQ8 encoded by DQA1*03:01, DQB1*03:02. HLA-DQ2 or DQ8 are expressed in 30-40% of the Caucasian population. HLA typing has a good negative predictive value in the diagnosis of coeliac disease.	The diagnosis of coeliac disease is very unlikely in the absence of HLA-DQ2 and HLA-DQ8 antigens. >95% of coeliac disease patients express HLA-DQ2 encoded by DQA1*05:01, DQB1*02:01 or DQA1*05:05, DQB1*03:01 and DQA1*02:01, DQB1*02:02. 5% of coeliac disease patients express HLA-DQ8 encoded by DQA1*03:01, DQB1*03:02. HLA-DQ2 or DQ8 are expressed in 30-40% of the Caucasian population. HLA typing has a good negative predictive value in the diagnosis of coeliac disease.	The patient has HLA-DQ2 encoded by an haplotype not listed to be most at risk of coeliac disease. >95% of coeliac disease patients express HLA-DQ2 encoded by DQA1*05:01, DQB1*02:01 or DQA1*05:05, DQB1*03:01 and DQA1*02:01, DQB1*02:02. 5% of coeliac disease patients express HLA-DQ8 encoded by DQA1*03:01, DQB1*03:02. HLA-DQ2 or DQ8 are expressed in 30-40% of the Caucasian population. HLA typing has a good negative predictive value in the diagnosis of coeliac disease.	The patient has a susceptibility gene to coeliac disease (haplotype encoding HLA-DQ8). >95% of coeliac disease patients express HLA-DQ2 encoded by DQA1*05:01, DQB1*02:01 or DQA1*05:05, DQB1*03:01 and DQA1*02:01, DQB1*02:02. 5% of coeliac disease patients express HLA-DQ8 encoded by DQA1*03:01, DQB1*03:02. HLA-DQ2 or DQ8 are expressed in 30-40% of the Caucasian population. HLA typing has a good negative predictive value in the diagnosis of coeliac disease.	The diagnosis of coeliac disease is very unlikely in the absence of HLA-DQ2 and HLA-DQ8 antigens. >95% of coeliac disease patients express HLA-DQ2 encoded by DQA1*05:01, DQB1*02:01 or DQA1*05:05, DQB1*03:01 and DQA1*02:01, DQB1*02:02. 5% of coeliac disease patients express HLA-DQ8 encoded by DQA1*03:01, DQB1*03:02. HLA-DQ2 or DQ8 are expressed in 30-40% of the Caucasian population. HLA typing has a good negative predictive value in the diagnosis of coeliac disease.	
159	Absence of susceptibility phenotype for coeliac disease	Absence of susceptibility phenotype for coeliac disease	Absence of susceptibility phenotype for coeliac disease	Presence of susceptibility phenotype for coeliac disease	Absence of susceptibility phenotype for coeliac disease	
173	low risk of coeliac disease	low risk of coeliac disease	low risk of coeliac disease	increased risk of coeliac disease because the patient is a carrier of DQ8 haplotype	low risk of coeliac disease	
176	Coeliac tissue-type Analysis: Negative to HLA-DQB1 * 02 (DQ2) and HLA-DQB1 * 03: 02 (DQ8). The genetic risk of coeliac disease is very small.	Coeliac tissue-type Analysis: Negative to HLA-DQB1 * 02 (DQ2) and HLA-DQB1 * 03: 02 (DQ8). The genetic risk of coeliac disease is very small.	Coeliac tissue-type Analysis: Positive to HLA-DQB1 * 02 (DQ2) and Negative to HLA-DQB1 * 03: 02 (DQ8) and HLA-DQA1*05. The genetic risk of coeliac disease is small.	Coeliac tissue-type Analysis: Positive to HLA-DQB1 * 02 (DQ2) and to HLA-DQB1 * 03: 02 (DQ8) and Negative to HLA-DQA1*05. The genetic risk of coeliac disease is present.	Coeliac tissue-type Analysis: Negative to HLA-DQB1 * 02 (DQ2) and HLA-DQB1 * 03: 02 (DQ8). The genetic risk of coeliac disease is very small.	
185	Association coeliac disease positive, rise low	Association coeliac disease negative	Association coeliac disease positive, rise low	Association coeliac disease positive, rise low	Association coeliac disease negative	
201						
219	HLA-DQ7.5 is detected in the form of HLA-DQA1*05. A small minority of coeliac patients has this allele. The allele is common in the general population. Coeliac disease is unlikely. However, the test alone can not exclude coeliac disease.	Neither HLA-DQB1*02 nor HLA-DQB1*03:02 is detected. Coeliac disease is highly unlikely.	HLA-DQ2.2 is detected in the form of HLA-DQB1*02 and HLA-DQA1*02. A small minority of coeliac patients has these alleles. The alleles are common in the general population. Coeliac disease is unlikely. However, the test alone can not exclude coeliac disease.	HLA-DQ8 is detected in the form of HLA-DQB1*03:02. HLA-DQB1*02 is not detected. Some coeliac patients have this allele. The allele is common in the general population. Coeliac disease is not very likely, but can not be excluded.	Neither HLA-DQB1*02 nor HLA-DQB1*03:02 is detected. Coeliac disease is highly unlikely.	
223						

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Coeliac Disease - interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
224						
225	The patient is DQ2 negative but have the alpha-chain (DQA1*05) that's included in DQ2. Celiac disease have been reported in som of these cases.	DQ2/DQ8 negative	The patient in HLA-DQ2.2 positive. Celiac disease is associated with this HLA-type in 5 %.	The patient in HLA-DQ2.2 positive. Celiac disease is associated with this HLA-type in 5 %. The patient is also HLA-DQ8-positive. Celiac disease is associated with this HLA-type in 5%.	DQ2/DQ8 negative	
245	Absence of susceptibility antigens DQ2 and DQ8.	Absence of susceptibility antigens DQ2 and DQ8.	Presence of DQ2 but not associated with a risk DQA chain, therefore associated with a weak risk for coeliac disease.	Presence of DQ8 associated with a weak risk for coeliac disease. Presence of DQ2 but not associated with a risk DQA chain, therefore associated with a weak risk for coeliac disease.	Absence of susceptibility antigens DQ2 and DQ8.	
255						
263	The analysis documented the presence of alleles not compatible with HLA-DQ2 or HLA-DQ8 haplotypes. The development of coeliac disease is therefore highly unlikely.	The analysis did not document the presence of alleles compatible with HLA-DQ2 or HLA-DQ8 haplotypes. The development of coeliac disease is therefore highly unlikely.	The HLA-DQB1*02 allele is present in heterozygosis. This condition, although compatible with the presence of coeliac disease, has not been shown to significantly increase the risk of disease compared to the general population.	HLA-DQ8 research is positive (DQA1*03-DQB1*0302), compatible with coeliac disease. Positive research of the HLA-DQB1*02 allele.	The analysis documented the presence of alleles not compatible with HLA-DQ2 or HLA-DQ8 haplotypes. The development of coeliac disease is therefore highly unlikely.	
269	HLA-DQ2.2: negativ HLA-DQ2.5: negativ HLA-DQ8: negativ beta-subunit HLA-DQ2.2/DQ2.5: negativ	HLA-DQ2.2: negativ HLA-DQ2.5: negativ HLA-DQ8: negativ beta-subunit HLA-DQ2.2/DQ2.5: negativ	HLA-DQ2.2: positiv HLA-DQ2.5: negativ HLA-DQ8: negativ beta-subunit HLA-DQ2.2/DQ2.5: positiv HLADQ2trans.haplotype2 carrier	HLA-DQ2.2: positiv HLA-DQ2.5: negativ HLA-DQ8: positiv beta-subunit HLA-DQ2.2/DQ2.5: positiv HLADQ2trans haplotype 2 carrier AND HLA DQ8	HLA-DQ2.2: negativ HLA-DQ2.5: negativ HLA-DQ8: negativ beta-subunit HLA-DQ2.2/DQ2.5: negativ	
274	no specific coeliac disease predicting haplotype detected	no specific coeliac disease predicting haplotype detected	HLADQ2trans.haplotype2 carrier	HLADQ2trans haplotype 2 carrier AND HLA DQ8	no specific coeliac disease predicting haplotype detected	
276	Associated with Coeliac Disease: Rarely	Associated with Coeliac Disease: No	Associated with Coeliac Disease: Rarely	Associated with Coeliac Disease: Yes	Associated with Coeliac Disease: No	
278	Alfa-subunit HLA-DQ2.5 detected as a mono-allel, which means that the risk of developing coeliac disease (CD) can not be excluded but the risk is very low.	The genotype excludes the risk of developing CD	The genotype is associated with a risk of developing CD	The genotype is associated with a risk of developing CD	Alfa-subunit HLA-DQ8 detected as a mono-allel, which means that the risk of developing coeliac disease (CD) can not be excluded but the risk is very low.	
279	Alleles non compatible with coeliac disease	Alleles non compatible with coeliac disease	Alleles compatible with coeliac disease	Alleles compatible with coeliac disease	Alleles non compatible with coeliac disease	
281						
307	ABSENCE OF THE HLA ALLELES ASSOCIATED TO CELIAC DISEASE	ABSENCE OF THE HLA ALLELES ASSOCIATED TO CELIAC DISEASE	ABSENCE OF THE HLA ALLELES ASSOCIATED TO CELIAC DISEASE	PRESENCE OF THE HLA-DQ8 HETERODIMER (DQA1*03, DOB1*03:02) ASSOCIATED TO CELIAC DISEASE	ABSENCE OF THE HLA ALLELES ASSOCIATED TO CELIAC DISEASE	
315	No coeliac association	No coeliac association	No coeliac association	Coeliac association	No coeliac association	
317						
319						
331	Absence of DQB1*02:01 ; absence of DQB1*03:02	Absence of DQB1*02:01 ; absence of DQB1*03:02	Absence of DQB1*02:01 ; absence of DQB1*03:02	Absence of DQB1*02:01 ; presence of DQB1*03:02	Absence of DQB1*02:01 ; absence of DQB1*03:02	
333						
338	The patient does not have any of the HLA antigens (DQ2.5, DQ2.2 or DQ8) associated with development of Coeliac Disease. The specific CD risk varies depending on different haplotype combinations and might also depend on ethnicity and other factors . Due to HLA diversity between ethnic groups a positive DR-DQ7.5 association can be reported even without the presence of mix 23 HLA-DRB1 (Protrans HLA CD kit)	Protrans HLA Coeliac Disease kit does not show any HLA genotype associated with genetic susceptibility for Coeliac Disease.	The DQ2 half heterodimer has been reported between 0-6% of CD patients , so the risk of developing Coeliac Disease is low.	The patient's haplotypes ( DQ2.2 , DQ8) are associated with genetic susceptibility of Coeliac Disease with a reasonable risk of developing the disease.	The patient does not have any of the HLA antigen (DQ2.5, DQ2.2 or DQ8) associated with development of Coeliac Disease. The specific CD risk varies depending on different haplotype combinations and might also depend on ethnicity and other factors .	
339						
342	Hereditary risk of developing coeliac disease does not exist	Hereditary risk of developing coeliac disease does not exist	Hereditary risk of developing coeliac disease exists	Hereditary risk of developing coeliac disease exists	Hereditary risk of developing coeliac disease does not exist	
347	Coeliac Disease almost certainly excluded; high negative predictive value	Coeliac Disease almost certainly excluded; high negative predictive value	Increased risk for the development of Coeliac Disease; determination of serological parameters or biopsy from the small intestine recommended.	Increased risk for the development of Coeliac Disease; determination of serological parameters or biopsy from the small intestine recommended.	Coeliac Disease almost certainly excluded; high negative predictive value	
355	The patient has, with a very high probability (approx. 99%), not coeliac disease	The patient has, with a very high probability (approx. 99%), not coeliac disease	The patient has a genetic disposition to develop coeliac disease. Analysing for coeliac antibodies in plasma is recommended	The patient has a genetic disposition to develop coeliac disease. Analysing for coeliac antibodies in plasma is recommended	The patient has, with a very high probability (approx. 99%), not coeliac disease	
359	The analysis highlighted the presence of only one at-risk allele.	the genotype found is not compatible with the risk of coeliac disease	the genotype (DQ2.2) found is compatible with the risk of coeliac disease	the genotype (DQ2.2 and DQ8) found is compatible with the risk of coeliac disease	The analysis highlighted the presence of only one at-risk allele.	
363						
413						

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Narcolepsy results - Assessed

Reference Type For Assessment	806/2018	807/2018	808/2018	809/2018	810/2018	Comments		
DRB1*	13:01; 13:03	15:01; -	07:01; 08:01	04:01; 07:01	04:01; 15:01			
DQA1*	01:03, 05:05	01:02; -	02:01; 03:02	02:01; 03:01	01:02; 03:03			
DQB1*	03:01, 06:03	06:02; -	02:02; 03:03	02:02; 03:02	03:01; 06:02			
Lab No.	HLA Alleles of interest	806/2018	807/2018	808/2018	809/2018	810/2018	Comments	
11	DQB1*06:02	DQB1*06:02 Negative	DQB1*06:02 Positive	DQB1*06:02 Negative	DQB1*06:02 Negative	DQB1*06:02 Positive		
17	DQB1*06:02	DQB1*06:02 Negative	DQB1*06:02 Positive	DQB1*06:02 Negative	DQB1*06:02 Negative	DQB1*06:02 Positive		
24	DQB1*06:02	DQB1*03:01/10/19/21/22/84N *06:03/14/41/44/60	DQB1*06:02	DQB1*02:02/06/10/11/12 *03:03/30/31/33/34/91Q	DQB1*02:02/06/10/11/12 *03:02/32/45/62/63/66N	DQB1*03:01/10/19/21/22/84N *06:02		
		DQA1**01:03/10/14 *05:05/09/11	DQA1*01:02/06/08/09/11/16N	DQA1*02:01 *03:02/03/04	DQA1*02:01 *03:01	DQA1*01:02/08/09/11/13/16N *03:02/03/04		
25	DQB1*06:02	HLA-DQB1*06:02 negative	HLA-DQB1*06:02 positive	HLA-DQB1*06:02 negative	HLA-DQB1*06:02 negative	HLA-DQB1*06:02 positive		
38	DRB1*15:01 and DQB1*06:02	DQB1*03:01, 06:03	DQB1*06:02	DQB1*02:02, 03:03	DQB1*02:02, 03:02	DQB1*03:01, 06:02		
42	DQB1*06:02	DQB1*03:01/03:22/03:27/03:28/03:29/03:35/0 3:42/03:44/03:47/03:49/03:50/03:51/03:73/03: 83/03:84N/03:92/03:93/03:94/03:114/03:115/0 3:116/03:119/03:165/03:169/03:182/03:191/03 :196/03:197Q/03:198/03:206/03:241/03:242/03 :243/03:246/03:252/03:253/03:254/03:266 DQB1*06:03/41/44/90/110/148/185/218/221/2 23	DQB1*06:02/06:33/06:46/06:47/06:68/06:70/0 6:71/06:72/06:73/06:74/06:75N/06:76/06:77N/ 06:78/06:80/06:81/06:83/06:84/06:95/06:96/06 :97/06:106/06:107/06:109/06:111/06:112N/06: 113/06:114/06:115/06:116/06:117/06:122/06:1 24/06:125/06:126/06:127/06:131/06:136/06:13 7/06:138/06:146/06:147/06:150/06:151/06:152 /06:159/06:161/06:163/06:166/06:173/06:174/ 06:175/06:178/06:179N/06:182/06:183/06:188/ 06:192/06:197/06:198/06:200/06:211/06:213/0 6:215/06:216N/06:219/06:224/06:225/06:226/0 6:227/06:228/06:232/06:235/06:236/06:237/06 :240 DQB1*06:02/06:33/06:46/06:47/06:68/06:70/0 6:71/06:72/06:73/06:74/06:75N/06:76/06:77N/ 06:78/06:80/06:81/06:83/06:84/06:95/06:96/06 :97/06:106/06:107/06:109/06:111/06:112N/06: 113/06:114/06:115/06:116/06:117/06:122/06:1 24/06:125/06:126/06:127/06:131/06:136/06:13 7/06:138/06:146/06:147/06:150/06:151/06:152 /06:159/06:161/06:163/06:166/06:173/06:174/ 06:175/06:178/06:179N/06:182/06:183/06:188/ 06:192/06:197/06:198/06:200/06:211/06:213/0 6:215/06:216N/06:219/06:224/06:225/06:226/0 6:227/06:228/06:232/06:235/06:236/06:237/06 :240	DQB1*02:02/11/12/26/50/62/65/80/84/89/95/9 7	DQB1*02:02/11/12/26/50/62/65/80/84/89/95/9 7	DQB1*03:02/32/85/190/199/211/245/247/251/ 265	DQB1*03:01/03:22/03:27/03:28/03:29/03:35/0 3:42/03:44/03:47/03:49/03:50/03:51/03:73/03: 83/03:84N/03:92/03:93/03:94/03:114/03:115/0 3:116/03:119/03:165/03:169/03:182/03:191/03 :196/03:197Q/03:198/03:206/03:241/03:242/03 :243/03:246/03:252/03:253/03:254/03:266 DQB1*06:02/06:47/06:84/06:107/06:109/06:11 1/06:113/06:114/06:115/06:116/06:117/06:125 /06:127/06:188/06:200/06:216N/06:219/06:224 /06:225/06:226/06:228/06:237/06:240	
109	LinkSeq HLA-DQB1*06:02 DQA1*01:02 (Strip)	negative	DQB1*06:02 DQA1*01:02	negative	negative	DQB1*06:02 DQA1*01:02		
113	DQB1*06:02	DQA1*01/DQB1*06:03 , DQA1*05/DQB1*03:01 DQB1*06:02 negative	DQA1*01:02/DQB1*06:02 , - DQB1*06:02 positive	DQA1*02:01/DQB1*02:02 , DQA1*03/DQB1*03:03 DQB1*06:02 negative	DQA1*02:01/DQB1*03:02 , DQA1*02:01/DQB1*02:02 DQB1*06:02 negative	DQA1*03/DQB1*06:02 , DQA1*03/DQB1*03:01 DQB1*06:02 positive		
127	HLA-DQA1 01:02 HLA-DQB1 06:02 HLA_DRB1 15:01:01	Negative for DQB1*06:02 NEGATIVE	Positive for DQB1*06:02 POSITIVE	Negative for DQB1*06:02 NEGATIVE	Negative for DQB1*06:02 NEGATIVE	Positive for DQB1*06:02 POSITIVE		
129	HLA-DQB1*06:02	HLA-DQB1* typing : HLA-DQB1*03:01,*06:03	HLA-DQB1* typing : HLA-DQB1*06:02,-	HLA-DQ typing : HLA-DQB1*02:02,*03:03	HLA-DQ typing : HLA-DQB1*02:02,*03:02	HLA-DQ typing : HLA-DQB1*03:01,*06:02		
150	DQB1*06:02	Result : Allele DQB1*06:02 : absence	Result : Allele DQB1*06:02 : presence	Result : Allele DQB1*06:02 : absence	Result : Allele DQB1*06:02 : absence	Result : Allele DQB1*06:02 : presence		
154	HLA-DQB1*06:02	DQB1 *03:01, 06:03; DRB1 *13:01, 13:03 DQA1*01:02 neg, DQB1*06:02 neg	DQB1 *06:02; DRB1*15:01 DQA1*01:02 pos, DQB1*06:02 pos	DQB1 *02:02, 03:03; DRB1 *07:01, 09:01 DQA1*01:02 neg, DQB1*06:02 neg	DQB1*02:02, 03:02; DRB1*04:01, 07:01 DQA1*01:02 neg, DQB1*06:02 neg	DQB1 *03:01, 06:02; DRB1 *04:01, 15:01 DQA1*01:02 pos, DQB1*06:02 pos		
185	DQB1*06:02, DRB1*15:01	DQA1*01:02 : negative, DQB1*06:02 : negative	DQA1*01:02 : POSITIVE, DQB1*06:02 : POSITIVE	DQA1*01:02 : negative, DQB1*06:02 : negative	DQA1*01:02 : negative, DQB1*06:02 : negative	DQA1*01:02 : POSITIVE, DQB1*06:02 : POSITIVE		
223	DQA1*01:02, DQB1*06:02	DQB1*06:02-negativ	DQB1*06:02-positive	DQB1*06:02-negative	DQB1*06:02-negative	DQB1*06:02-positive		
224	DQA1*01:02, DQB1*06:02	Absence	Presence	Absence	Absence	Presence		
225	HLA-DQB1*06:02	HLA-DQB1*06:02 Negativ	HLA-DQB1*06:02 Positiv	HLA-DQB1*06:02 Negativ	HLA-DQB1*06:02 Negativ	HLA-DQB1*06:02 Positiv		
245	DQB1*06:02	no association with narcolepsia	positive association with narcolepsia (DQB1*06:02 allele)	no association with narcolepsia	no association with narcolepsia	positive association with narcolepsia (DQB1*06:02 allele)		
276	HLA-DQB1*06:02	DQB1*06:03, 03:01	DQB1*06:02, 06:02	DQB1*02, 03	DQB1*02, 03:02	DQB1*03:01, 06:02		
281	DQB1*06:02	DQB1*03:01/03:13, DQB1*06:03	DQB1*06:WG, DQB1*06:WG	DQB1*02:02, DQB1*03:03	DQB1*02:02, DQB1*03:02	DQB1*03:01/03:13, DQB1*06:02/06:11		

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Narcolepsy - interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
11	HLA-DQB1 allele known to be associated with Narcolepsy is not present	HLA-DQB1 allele known to be associated with but not diagnostic for Narcolepsy is present.	HLA-DQB1 allele known to be associated with Narcolepsy is not present	HLA-DQB1 allele known to be associated with Narcolepsy is not present	HLA-DQB1 allele known to be associated with but not diagnostic for Narcolepsy is present.	
17	This patient is NEGATIVE for the narcolepsy associated allele DQB1*06:02.	This patient is POSITIVE for the narcolepsy associated allele DQB1*06:02.	This patient is NEGATIVE for the narcolepsy associated allele DQB1*06:02.	This patient is NEGATIVE for the narcolepsy associated allele DQB1*06:02.	This patient is POSITIVE for the narcolepsy associated allele DQB1*06:02.	
24	Neg	Pos	Neg	Neg	Pos	
25		Allele associated with Narcolepsy is present. The presence of a particular HLA antigen does not establish the diagnosis of any particular disease, but provides a probability statement for the possible existence of the disease in the patient.			Allele associated with Narcolepsy is present. The presence of a particular HLA antigen does not establish the diagnosis of any particular disease, but provides a probability statement for the possible existence of the disease in the patient	
38	The patient does NOT carry the associated HLA alleles which confer susceptibility to narcolepsy.	The patient carries DQB1*06:02 which confers susceptibility to narcolepsy.	The patient does NOT carry the associated HLA alleles which confer susceptibility to narcolepsy.	The patient does NOT carry the associated HLA alleles which confer susceptibility to narcolepsy.	The patient carries DQB1*06:02 which confers susceptibility to narcolepsy.	
42	This patient is HLA-DQB1*06:02 NEGATIVE. Narcolepsy is associated with the expression of the human leukocyte antigen (HLA) class II molecule DQB1*06:02.	This patient is HLA-DQB1*06:02 POSITIVE. Narcolepsy is associated with the expression of the human leukocyte antigen (HLA) class II molecule DQB1*06:02.	This patient is HLA-DQB1*06:02 NEGATIVE. Narcolepsy is associated with the expression of the human leukocyte antigen (HLA) class II molecule DQB1*06:02.	This patient is HLA-DQB1*06:02 NEGATIVE. Narcolepsy is associated with the expression of the human leukocyte antigen (HLA) class II molecule DQB1*06:02.	This patient is HLA-DQB1*06:02 POSITIVE. Narcolepsy is associated with the expression of the human leukocyte antigen (HLA) class II molecule DQB1*06:02.	
109	The Patient is negative for the Narcolepsia-associated HLA-allele DQB1*06:02	The Patient is POSITIVE for the Narcolepsia-associated HLA-allele DQB1*06:02	The Patient is negative for the Narcolepsia-associated HLA-allele DQB1*06:02	The Patient is negative for the Narcolepsia-associated HLA-allele DQB1*06:02	The Patient is POSITIVE for the Narcolepsia-associated HLA-allele DQB1*06:02	
113	The patient does not carry the associated allele which confers susceptibility to narcolepsy (HLA-DQB1*06:02)	The patient carries DQB1*06:02 which confers susceptibility to narcolepsy	The patient does not carry the associated allele which confers susceptibility to narcolepsy (HLA-DQB1*06:02)	The patient does not carry the associated allele which confers susceptibility to narcolepsy (HLA-DQB1*06:02)	The patient carries DQB1*06:02 which confers susceptibility to narcolepsy	
127						
129						
150	Absence of allele DQB1*06:02 and presence of allele DQB1*06:03.	Presence of allele DQB1*06:02	Absence of allele DQB1*06:02	Absence of allele DQB1*06:02	Presence of allele DQB1*06:02	
154	The HLA-DQB1*06:02 is found in 15-25% of the overall population and in 90-100% of narcolepsy patients.	The HLA-DQB1*06:02 is found in 15-25% of the overall population and in 90-100% of narcolepsy patients.	The HLA-DQB1*06:02 is found in 15-25% of the overall population and in 90-100% of narcolepsy patients.	The HLA-DQB1*06:02 is found in 15-25% of the overall population and in 90-100% of narcolepsy patients.	The HLA-DQB1*06:02 is found in 15-25% of the overall population and in 90-100% of narcolepsy patients.	
159						
185	Association narcolepsy negative	Association narcolepsy positive	Association narcolepsy negative	Association narcolepsy negative	Association narcolepsy positive	
223						
224						
225	The patient don't have the HLA-type that's associated with narcolepsy.	The patient have the HLA-type that's associated with narcolepsy.	The patient don't have the HLA-type that's associated with narcolepsy.	The patient don't have the HLA-type that's associated with narcolepsy.	The patient have the HLA-type that's associated with narcolepsy.	
245	Absence of the susceptibility allele DQB1*06:02	Presence of the susceptibility allele DQB1*06:02 at a homozygous state.	Absence of the susceptibility allele DQB1*06:02	Absence of the susceptibility allele DQB1*06:02	Presence of the susceptibility allele DQB1*06:02 at a heterozygous state.	
276						
281						
315	No narcolepsy association	Narcolepsy association	No narcolepsy association	No narcolepsy association	Narcolepsy association	
331	Absence of DQB1*06:02	Presence of the allele HLA DQB1*06:02 or DQB1*06:11. This typing ambiguity cannot be ruled out with the probes used. The results should be confronted to clinica context.	Absence of DQB1*06:02	Absence of DQB1*06:02	Presence of the allele HLA DQB1*06:02 or DQB1*06:11. This typing ambiguity cannot be ruled out with the probes used. The results should be confronted to clinica context.	



**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Actinic Prurigo results - Assessed

Reference Type For Assessment	806/2018	807/2018	808/2018	809/2018	810/2018	Comments		
DRB1*	13:01; 13:03	15:01; -	07:01; 09:01	04:01; 07:01	04:01; 15:01			
Lab No.	HLA Alleles of interest	806/2018	807/2018	808/2018	809/2018	810/2018		
25	DRB1*04:07	DRB1*13	DRB1*15	DRB1*07 DRB1*09	DRB1*04:01/33 DRB1*07	DRB1*04:01/33/35 DRB1*15		
38	DRB1*04:07	DRB1*13:01, 13:03	DRB1*15:01	DRB1*07:01, 09:01	DRB1*04:01, 07:01	DRB1*04:01, 15:01		
	DRB1*04:07	DRB1*13:01/13:28/13:59/13:61/13:69	DRB1*15:01/15:04/15:05/15:06/15:09/15:13/15:16/15:18/15:20/15:22/15:24/15:28/15:32/15:33/15:36/15:37/15:40/15:41/15:42/15:43/15:45/15:46/15:48/15:49/15:50N/15:51/15:52/15:53/15:55/15:56/15:59/15:61/15:62/15:64/15:66/13:173/13:183/13:186/13:187/13:190/13:200N/13:201/13:205/13:213/13:215/13:216/13:222/13:226/13:233	DRB1*15:01/15:04/15:05/15:06/15:09/15:13/15:16/15:18/15:20/15:22/15:24/15:28/15:32/15:33/15:36/15:37/15:40/15:41/15:42/15:43/15:45/15:46/15:48/15:49/15:50N/15:51/15:52/15:53/15:55/15:56/15:59/15:61/15:62/15:64/15:66/13:173/13:183/13:186/13:187/13:190/13:200N/13:201/13:205/13:213/13:215/13:216/13:222/13:226/13:233	DRB1*07:01/07:03/07:05/07:06/07:07/07:09/07:10N/07:11/07:12/07:13/07:14/07:15/07:16/07:17/07:18/07:19/07:21/07:22/07:23/07:24/07:25/07:26/07:27/07:28/07:29/07:30/07:31/07:32/07:33/07:34/07:35/07:38/07:40/07:41/07:42/07:43/07:44/07:45/07:46/07:47/07:48/07:49/07:50/07:51/07:52/07:53/07:54/07:55/07:56/07:57/07:58N/07:59/07:60/07:61/07:62/07:63/07:65/07:66/07:67/07:68/07:72/07:73/07:74/07:75/07:76/07:77/07:78/07:79	DRB1*04:01/04:33/04:38/04:72/04:76/04:11/04:112/04:117/04:119N/04:123/04:130/04:135/04:139/04:151/04:155/04:171/04:174/04:175/04:179/04:190/04:192/04:194/04:196/04:215/04:216/04:217/04:233	DRB1*04:01/04:33/04:35/04:38/04:72/04:76/04:11/04:112/04:117/04:119N/04:123/04:127/04:130/04:135/04:139/04:151/04:155/04:171/04:174/04:175/04:179/04:190/04:192/04:196/04:200/04:215/04:216/04:217/04:233	
42	DRB1*04:07	DRB1*13:03/33/95/101/115/120/151/152/174/194/216/219/227/230	DRB1*15:01/15:02/15:04/15:05/15:06/15:09/15:13/15:16/15:18/15:20/15:22/15:24/15:28/15:32/15:33/15:36/15:37/15:40/15:41/15:42/15:43/15:45/15:46/15:48/15:49/15:50N/15:51/15:52/15:53/15:55/15:56/15:59/15:61/15:62/15:64/15:65/15:67/15:69/15:70/15:71/15:72/15:73/15:75/15:76/15:77/15:79/15:81/15:82/15:83/15:85/15:86/15:87/15:89/15:90/15:91/15:92/15:93/15:95/15:97/15:98/15:102/15:106/15:107/15:108/15:111/15:112/15:113N/15:114/15:116/15:118/15:121/15:123/15:124/15:125/15:127/15:128/15:129N/15:132/15:133/15:134N/15:136/15:137N/15:138N/15:141/15:143/15:144/15:145/15:146/15:147	DRB1*07:01/07:03/07:05/07:06/07:07/07:09/07:10N/07:11/07:12/07:13/07:14/07:15/07:16/07:17/07:18/07:19/07:21/07:22/07:23/07:24/07:25/07:26/07:27/07:28/07:29/07:30/07:31/07:32/07:33/07:34/07:35/07:38/07:40/07:41/07:42/07:43/07:44/07:45/07:46/07:47/07:48/07:49/07:50/07:51/07:52/07:53/07:54/07:55/07:56/07:57/07:58N/07:59/07:60/07:61/07:62/07:63/07:65/07:66/07:67/07:68/07:72/07:73/07:74/07:75/07:76/07:77/07:78/07:79	DRB1*04:01/04:33/04:38/04:72/04:76/04:11/04:112/04:117/04:119N/04:123/04:130/04:135/04:139/04:151/04:155/04:171/04:174/04:175/04:179/04:190/04:192/04:194/04:196/04:215/04:216/04:217/04:233	DRB1*04:01/04:33/04:35/04:38/04:72/04:76/04:11/04:112/04:117/04:119N/04:123/04:127/04:130/04:135/04:139/04:151/04:155/04:171/04:174/04:175/04:179/04:190/04:192/04:196/04:200/04:215/04:216/04:217/04:233		
315	DR4	DR13, 13	DR15, 15	DR7, 9	DR4, 7	DR4, 15		

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Actinic Prurigo - interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
25	This patient is negative for the HLA-DRB1*04:07 allele associated most strongly with Actinic Prurigo	This patient is negative for the HLA-DRB1*04:07 allele associated most strongly with Actinic Prurigo	This patient is negative for the HLA-DRB1*04:07 allele associated most strongly with Actinic Prurigo	This patient is negative for the HLA-DRB1*04:07 allele associated most strongly with Actinic Prurigo	This patient is negative for the HLA-DRB1*04:07 allele associated most strongly with Actinic Prurigo	
38	The patient does NOT carry HLA-DRB1*04:07, which confers susceptibility to Actinic Prurigo.	The patient does NOT carry HLA-DRB1*04:07, which confers susceptibility to Actinic Prurigo.	The patient does NOT carry HLA-DRB1*04:07, which confers susceptibility to Actinic Prurigo.	The patient does NOT carry HLA-DRB1*04:07, which confers susceptibility to Actinic Prurigo.	The patient does NOT carry HLA-DRB1*04:07, which confers susceptibility to Actinic Prurigo.	
42	This patient is HLA-DRB1*04:07 NEGATIVE. Actinic Prurigo is associated with the expression of the human leukocyte antigen (HLA) class II molecule DRB1*04:07	This patient is HLA-DRB1*04:07 NEGATIVE. Actinic Prurigo is associated with the expression of the human leukocyte antigen (HLA) class II molecule DRB1*04:07	This patient is HLA-DRB1*04:07 NEGATIVE. Actinic Prurigo is associated with the expression of the human leukocyte antigen (HLA) class II molecule DRB1*04:07	This patient is HLA-DRB1*04:07 NEGATIVE. Actinic Prurigo is associated with the expression of the human leukocyte antigen (HLA) class II molecule DRB1*04:07	This patient is HLA-DRB1*04:07 NEGATIVE. Actinic Prurigo is associated with the expression of the human leukocyte antigen (HLA) class II molecule DRB1*04:07	
159						
315	No Actinic Prurigo association	No Actinic Prurigo association	No Actinic Prurigo association	Actinic Prurigo association	Actinic Prurigo association	

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Birdshot Retinopathy results - Assessed

Lab No.	HLA Alleles of interest	Reference Type For Assessment		806/2018		807/2018		808/2018		809/2018		810/2018		Comments
		A	A	02:01:629:642:655:686:689/704/-		03:01, 11:01		29:02, 68:01		02:01:629:642:655:686:689/704/-		02:01, 68:01		
11	A*29	806/2018	807/2018	808/2018	809/2018	810/2018								
25	A*29	HLA-A29 Negative	HLA-A29 Negative	HLA-A29 Positive	HLA-A29 Negative	HLA-A29 Negative								
38	A*29	A*02	A*03, 11	A*29, 68	A*02	A*02, 68								
42	A*29	A*02	A*03, 11	A*29, 68	A*02	A*02, 68								
150	A*29	Negative	Negative	Positive	Negative	Negative								
245	A*29	A*02 - (absence of A*29)	A*03, 11 (absence of A*29)	A*29, 68 (presence of A*29)	A*02 - (absence of A*29)	A*02, 68 (presence of A*29)								
315	A*29	NT	NT	NT	NT	NT								

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Birdshot Retinopathy - interpretive comments (Not Assessed)**

Lab					Comments
No.	806/2018	807/2018	808/2018	809/2018	810/2018
11	HLA-A allele known to be associated with but not diagnostic for birdshot chorioretinopathy is absent.	HLA-A allele known to be associated with but not diagnostic for birdshot chorioretinopathy is absent.	HLA-A allele known to be associated with but not diagnostic for birdshot chorioretinopathy is present.	HLA-A allele known to be associated with but not diagnostic for birdshot chorioretinopathy is absent.	HLA-A allele known to be associated with but not diagnostic for birdshot chorioretinopathy is absent.
25	Patient is negative for the HLA-A29 antigen which is associated with Birdshot Retinopathy	Patient is negative for the HLA-A29 antigen which is associated with Birdshot Retinopathy	The HLA A29 antigen associated with Birdshot Chorioretinopathy is present. The presence of a particular HLA antigen does not establish the diagnosis of any particular disease, but provides a probability statement for the possible existence of the disease in the patient.	Patient is negative for the HLA-A29 antigen which is associated with Birdshot Retinopathy	Patient is negative for the HLA-A29 antigen which is associated with Birdshot Retinopathy
38	The patient does NOT carry HLA-A*29 which confers susceptibility to Birdshot Chorioretinopathy.	The patient does NOT carry HLA-A*29 which confers susceptibility to Birdshot Chorioretinopathy.	The patient carries HLA-A*29 which confers susceptibility to Birdshot Chorioretinopathy.	The patient does NOT carry HLA-A*29 which confers susceptibility to Birdshot Chorioretinopathy.	The patient does NOT carry HLA-A*29 which confers susceptibility to Birdshot Chorioretinopathy.
42	This patient is HLA-A*29 NEGATIVE. Birdshot retinochoroidopathy is associated with the expression of the human leukocyte antigen (HLA) class I molecule A*29.	This patient is HLA-A*29 NEGATIVE. Birdshot retinochoroidopathy is associated with the expression of the human leukocyte antigen (HLA) class I molecule A*29.	This patient is HLA-A*29 POSITIVE. Birdshot retinochoroidopathy is associated with the expression of the human leukocyte antigen (HLA) class I molecule A*29.	This patient is HLA-A*29 NEGATIVE. Birdshot retinochoroidopathy is associated with the expression of the human leukocyte antigen (HLA) class I molecule A*29.	This patient is HLA-A*29 NEGATIVE. Birdshot retinochoroidopathy is associated with the expression of the human leukocyte antigen (HLA) class I molecule A*29.
150	Absence of allele A*29.	Absence of allele A*29.	Presence of allele A*29.	Absence of allele A*29.	Absence of allele A*29.
245					
315					

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Behcet's Disease results - Assessed

Reference Type For Assessment	806/2018	807/2018	808/2018	809/2018	810/2018	
B*	15:01; 51:01	07:02; 40:01	44:02, 44:03	14:01; 15:01	13:02; 40:01	
Lab					Comments	
No.	HLA Alleles of interest	806/2018	807/2018	808/2018	809/2018	810/2018
11	B*51	HLA-B51(5) Positive	HLA-B51(5) Negative	HLA-B51(5) Negative	HLA-B51(5) Negative	HLA-B51(5) Negative
12	B*51	HLA B*51: Positive	HLA B*51: Neogative	HLA B*51: Neogative	HLA B*51: Neogative	HLA B*51: Neogative
25	B*51	B*15 B*51	B*07 B*40	B*44	B*14 B*15	B*13 B*40
38	B*51	B*15:01, 51:01	B*07:02, 40:01	B*44:02, 44:03	B*14:01, 15:01	B*13:02, 40:01
42	B*51	B*15:01/15:01N/15:04/15:30/15:34/15:38/15:39/15:60/15:71/15:78/15:79N/15:82/15:92/15:102/15:104/15:122/15:140/15:146/15:147/15:159/15:160/15:166/15:167/15:169/15:171/15:174/15:175/15:178/15:181N/15:182N/15:187/15:190N/15:192/15:201/15:203/15:205/15:206/15:211/15:227/15:228/15:231/15:234/15:245Q/15:247/15:257/15:260/15:261/15:276/15:278/15:295/15:316/15:317/15:320/15:321Q/15:326/15:333/15:343/15:346/15:347/15:349/15:353/15:355/15:359/15:363/15:370/15:371/15:372/15:373/15:375N/15:377Q/15:385/15:386/15:390/15:391/15:400N/15:401/15:409/15:413/15:419/15:422	B*07:02/07:10/07:15/07:21/07:22/07:23/07:30/07:35/07:39/07:42/07:44N/07:45/07:46/07:49/07:52/07:57/07:58/07:59/07:61/07:62/07:67/07:68/07:73/07:74/07:75/07:76/07:79/07:82/07:83/07:87/07:88/07:89/07:91/07:92/07:93/07:98/07:99/07:102/07:103/07:104/07:106/07:111N/07:113/07:117/07:120/07:121/07:122/07:126/07:128/07:129/07:130/07:135N/07:136/07:139/07:141/07:142/07:144/07:145/07:150/07:152/07:156/07:158/07:159/07:160/07:161N/07:165/07:166/07:167/07:168/07:169/07:170/07:171/07:172/07:173/07:179/07:185/07:188/07:189/07:190/07:191/07:192/07:195/07:200/07:203/07:205/07:208/07:211/07:212/07:215/07:216/07:217/07:222/07:231N/07:233/07:238/07:240/07:241/07:244/07:245/07:250/07:252/07:253/07:254/07:256/07:257/07:261/07:265/07:267/07:271/07:272N/07:275/07:276/07:277/07:280/07:282/07:285N/07:286/07:288/07:289/07:291/07:292/07:294/07:295	B*44:02/44:02S/44:05/44:11/44:14/44:19N/44:23N/44:27/44:33/44:42/44:48/44:51/44:52N/44:53/44:58N/44:59/44:63/44:66/44:67/44:68/44:70/44:71/44:72/44:74/44:78/44:80/44:84/44:86/44:87/44:88/44:91/44:93/44:100/44:101/44:102/44:104/44:112/44:113/44:116/44:118/44:119/44:121/44:126/44:127/44:133/44:136/44:137/44:138Q/44:139/44:140/44:145/44:148/44:149N/44:151/44:152/44:162/44:168/44:170/44:171N/44:172/44:173/44:177/44:179/44:185/44:187/44:191/44:195N/44:196/44:200/44:201/44:206/44:208/44:211/44:212/44:214/44:216/44:217N/44:218/44:219/44:220/44:226/44:229/44:235/44:238/44:240/44:241/44:242/44:243/44:244/44:249/44:253/44:255/44:260/44:261/44:262/44:264/44:265/44:267N/44:270/44:276/15:295/15:316/15:317/15:32	B*15:01/15:01N/15:34/15:50/15:58/13:02/13:08/13:11/13:19/13:27/13:30/13:32/13:37/13:38/13:40/13:42/13:44/13:45/13:47/13:49N/13:54/13:56N/13:59/13:65/13:66/13:68/13:69/13:70/13:74/13:75/13:81/13:82/13:84/13:85/13:88/13:91/13:96/13:99/13:100/13:101/13:102/13:103N	B*13:02/13:08/13:11/13:19/13:27/13:30/13:32/13:37/13:38/13:40/13:42/13:44/13:45/13:47/13:49N/13:54/13:56N/13:59/13:65/13:66/13:68/13:69/13:70/13:74/13:75/13:81/13:82/13:84/13:85/13:88/13:91/13:96/13:99/13:100/13:101/13:102/13:103N
150	B*51	POSITIVE	NEGATIVE	NEGATIVE	NEGATIVE	NEGATIVE
173	B*51	positiv	negativ	negativ	negativ	negativ
245	B*51	B*15, 51 (presence of B*51)	B*07, 40 (absence of B*51)	B*44, 44 (absence of B*51)	B*14, 15 (absence of B*51)	B*13, 40 (absence of B*51)

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

**Behcet's Disease - interpretive comments (Not Assessed)**

Lab No.	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
11	HLA-B51(5) is associated with but is not diagnostic for Behcet's disease.	The HLA allele associated with Behcet's disease is absent.	The HLA allele associated with Behcet's disease is absent.	The HLA allele associated with Behcet's disease is absent.	The HLA allele associated with Behcet's disease is absent.	
12	This patient is positive for HLA-B*51 (the HLA specificity associated with Behcet's disease).	This patient is negative for HLA-B*51 (the HLA specificity associated with Behcet's disease). Note: HLA-B*51 alleles with a population frequency <0.001% (identified on <a href="http://www.allelefreqencies.net">http://www.allelefreqencies.net</a> ) may not be detected by this assay.	This patient is negative for HLA-B*51 (the HLA specificity associated with Behcet's disease). Note: HLA-B*51 alleles with a population frequency <0.001% (identified on <a href="http://www.allelefreqencies.net">http://www.allelefreqencies.net</a> ) may not be detected by this assay.	This patient is negative for HLA-B*51 (the HLA specificity associated with Behcet's disease). Note: HLA-B*51 alleles with a population frequency <0.001% (identified on <a href="http://www.allelefreqencies.net">http://www.allelefreqencies.net</a> ) may not be detected by this assay.	This patient is negative for HLA-B*51 (the HLA specificity associated with Behcet's disease). Note: HLA-B*51 alleles with a population frequency <0.001% (identified on <a href="http://www.allelefreqencies.net">http://www.allelefreqencies.net</a> ) may not be detected by this assay.	
25	The HLA-B51 antigen associated with Behcets Disease is present. The presence of a particular HLA antigen does not establish the diagnosis of any particular disease, but provides a probability statement for the possible existence of th disease in the patient	Patient is negative for HLA-B51 antigen which is associated with Behcets Disease.	Patient is negative for HLA-B51 antigen which is associated with Behcets Disease.	Patient is negative for HLA-B51 antigen which is associated with Behcets Disease	Patient is negative for HLA-B51 antigen which is associated with Behcets Disease	
38	This patient carries HLA-B*51 which confers susceptibility to Behcet's disease.	This patient does NOT carry HLA-B*51 which confers susceptibility to Behcet's disease.	This patient does NOT carry HLA-B*51 which confers susceptibility to Behcet's disease.	This patient does NOT carry HLA-B*51 which confers susceptibility to Behcet's disease.	This patient does NOT carry HLA-B*51 which confers susceptibility to Behcet's disease.	
42	This patient is HLA-B*51 POSITIVE. Behcet's disease is associated with the expression of the human leukocyte antigen (HLA) class I molecule B51.	This patient is HLA-B*51 NEGATIVE. Behcet's disease is associated with the expression of the human leukocyte antigen (HLA) class I molecule B51.	This patient is HLA-B*51 NEGATIVE. Behcet's disease is associated with the expression of the human leukocyte antigen (HLA) class I molecule B51.	This patient is HLA-B*51 NEGATIVE. Behcet's disease is associated with the expression of the human leukocyte antigen (HLA) class I molecule B51.	This patient is HLA-B*51 NEGATIVE. Behcet's disease is associated with the expression of the human leukocyte antigen (HLA) class I molecule B51.	
78						
150	Presence of allele B*51	Absence of allele B*51	Absence of allele B*51	Absence of allele B*51	Absence of allele B*51	
173	This patient has a genetic predisposition to develop Behçet disease	This patient has a low probability to develop Behçet disease	This patient has a low probability to develop Behçet disease	This patient has a low probability to develop Behçet disease	This patient has a low probability to develop Behçet disease	

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

SAMPLES 806-10/2018

Rheumatoid Arthritis results - Assessed

Reference Type For Assessment		806/2018	807/2018	808/2018	809/2018	810/2018	
DRB1*		13:01; 13:03	15:01; -	07:01; 09:01	04:01; 07:01	04:01; 15:01	
Lab	HLA Alleles of interest	806/2018	807/2018	808/2018	809/2018	810/2018	Comments
No.	DRB1*01:01, DRB1*01:02, DRB1*04:01, DRB1*04:04, DRB1*04:05, DRB1*04:08, DRB1*04:09, DRB1*04:10, DRB1*10, DRB1*14:02, DRB1*14:06	DRB1*13, 13	DRB1*15, -	DRB1*07, 09	DRB1*04:01, 07	DRB1*04:01, 15:01	
113	DRB1	DRB1*13, 13	DRB1*15, -	DRB1*07, 09	DRB1*04, 07	DRB1*04, 15	
245	DR4	DRB1*13, DRB1*13	DRB1*15, DRB1*15	DRB1*07, DRB1*09	DRB1*04, DRB1*07	DRB1*04, DRB1*15	
331							

**UK NEQAS for H&I Scheme 8 - HLA Genotyping for Coeliac and Other HLA Associated Diseases**

RESULTS OF PARTICIPATING LABORATORIES

DESPATCHED ON 16TH OCTOBER 2018

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**Rheumatoid Arthritis - interpretive comments (Not Assessed)**

Lab					Comments
No.	806/2018	807/2018	808/2018	809/2018	810/2018
113	Absence of any susceptibility allele for Rheumatoid Arthritis	Absence of any susceptibility allele for Rheumatoid Arthritis	Absence of any susceptibility allele for Rheumatoid Arthritis	Presence of susceptibility allele of rheumatoid arthritis (DRB1*04:01)	Presence of susceptibility allele of rheumatoid arthritis (DRB1*04:01)
245	Absence of shared epitopes at risk for RA.	Absence of shared epitopes at risk for RA.	Absence of shared epitopes at risk for RA.	Presence of shared epitope at risk for RA, simple dose.	Presence of shared epitope at risk for RA, simple dose.
331	Absence of DR4	Absence of DR4	Absence of DR4	Presence of DR4	Presence of DR4



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**Diabetes results - Assessed**

Reference Type For Assessment		806/2018	807/2018	808/2018	809/2018	810/2018	
	<b>DRB1*</b>	13:01; 13:03	15:01; -	07:01; 09:01	04:01; 07:01	04:01; 15:01	
	<b>DQA1*</b>	01:03, 05:05	01:02; -	02:01; 03:02	02:01; 03:01	01:02; 03:03	
	<b>DQB1*</b>	03:01, 06:03	06:02; -	02:02; 03:03	02:02; 03:02	03:01; 06:02	
Lab							Comments
No.	HLA Alleles of interest	806/2018	807/2018	808/2018	809/2018	810/2018	
113	DRB1*04/DQA1*03:01/DQB1*03:02, DRB1*03:01/DQA1*05:01/DQB1*02:01	DRB1*13/DQA1*01/DQB1*06:03 , DRB1*13/DQA1*05/DQB1*03:01	DRB1*15:01/DQA1*01:02/DQB1*06:02 , - DQB1*0602	DRB1*07/DQA1*02:01/DQB1*02:02 , DRB1*09/DQA1*03/DQB1*03:03	DRB1*04:01/DQA1*03/DQB1*03:02 , DRB1*07/DQA1*02:01/DQB1*02:02	DRB1*15:01/DQA1*01:02/DQB1*06:02 , DRB1*04:01/DQA1*03/DQB1*03:01	
129	DQB1*02, DQB1*0301, DQB1*0302, DQB1*0303, DQB1*0503, DQB1*0602, DQB1*0603, DQA1*0201, DQA1*03, DQA1*05, DRB1*0401, DRB1*0402, DRB1*0403, DRB1*0404, DRB1*0405	DQA1*05-DQB1*0301 / DQB1*0603		DQA1*0201-DQB1*02 / DQA1*03 - DQB1*0303	<b>DQA1*02-DQB1*0201 / DRB1*0401-DQA1*03-DQB1*0302</b>	DRB1*0401-DQA1*03-DQB1*0301 / DQB1*0602	
154	HLA-DRB1* is typed to the 2-digit level and HLA-DQA1* and HLA-DQB1* are typed to the 4-digit level to detect the following haplotypes : HLA-DRB1*03, DQA1*05:01, DQB1*02:01 and HLA-DRB1*04, DQA1*03:01, DQB1*03:02	HLA-DR typing : HLA-DRB1*13,*13  HLA-DQ typing : HLA-DQA1*01:03/01:14,*05:05 HLA-DQB1*03:01,*06:03  Result : haplotype DR3,DQ2 (DRB1*03,DQA1*05:01,DQB1*02:01) : absence haplotype DR4,DQ8 (DRB1*04,DQA1*03:01,DQB1*03:02) : absence	HLA-DR typing : HLA-DRB1*15,*-  HLA-DQ typing : HLA-DQA1*01:02,*- HLA-DQB1*06:02,*-  Result : haplotype DR3,DQ2 (DRB1*03,DQA1*05:01,DQB1*02:01) : absence haplotype DR4,DQ8 (DRB1*04,DQA1*03:01,DQB1*03:02) : absence	HLA-DR typing : HLA-DRB1*07,*09  HLA-DQ typing : HLA-DQA1*02:01,*03:02 HLA-DQB1*02:02,*03:03  Result : haplotype DR3,DQ2 (DRB1*03,DQA1*05:01,DQB1*02:01) : absence haplotype DR4,DQ8 (DRB1*04,DQA1*03:01,DQB1*03:02) : absence	HLA-DR typing : HLA-DRB1*04,*07  HLA-DQ typing : HLA-DQA1*02:01,*03:01 HLA-DQB1*02:02,*03:02  Result : haplotype DR3,DQ2 (DRB1*03,DQA1*05:01,DQB1*02:01) : absence haplotype DR4,DQ8 (DRB1*04,DQA1*03:01,DQB1*03:02) : presence	HLA-DR typing : HLA-DRB1*04,*15  HLA-DQ typing : HLA-DQA1*01:02,*03:03 HLA-DQB1*03:01,*06:02  Result : haplotype DR3,DQ2 (DRB1*03,DQA1*05:01,DQB1*02:01) : absence haplotype DR4,DQ8 (DRB1*04,DQA1*03:01,DQB1*03:02) : absence	
245	DRB1, DQA1, DQB1	DRB1*13,*13 ; DQA1*01,*05 ; DQB1*03,*06 (DQB1*03 serological equivalent: DQ7)	DRB1*15,- ; DQA1*01,- ; DQB1*06,-	DRB1*07,*09 ; DQA1*02,*03 ; DQB1*02,*03 (DQB1 serological equivalent: DQ9)	DRB1*04,*07 ; DQA1*02,*03 ; DQB1*02,*03 (DQB1*03 serological equivalent: DQ8)	DRB1*04,*15 ; DQA1*01,*03 ; DQB1*03,*06 (DQB1*03 serological equivalent: DQ7)	
331	DR3, DR4	DRB1*13, DRB1*13	DRB1*15, DRB1*15	DRB1*07, DRB1*09	DRB1*04, DRB1*07	DRB1*04, DRB1*15	

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RESULTS OF PARTICIPATING LABORATORIES

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**Diabetes - interpretive comments (Not Assessed)**

Lab					Comments
No.	806/2018	807/2018	808/2018	809/2018	810/2018
113	The patient has no HLA haplotype associated with type 1 diabetes.	The patient carries one protective haplotype for type 1 diabetes (DRB1*15:01/DQA1*01:02/DQB1*06:02)	The patient has no HLA haplotype associated with type 1 diabetes	The patient expresses the HLA-DRB1*04:01/DQA1*03:01/DQB1*03:02 haplotype associated with type 1 diabetes.	The patient carries one protective haplotype for type 1 diabetes (DRB1*15:01/DQA1*01:02/DQB1*06:02)
129	Strongly decreased risk	Strongly decreased risk	Neutral	Moderately increased risk	Strongly decreased risk
154	The patient has no HLA haplotype associated with type 1 diabetes. The DR3,DQ2 and DR4,DQ8 haplotypes are found in 95% of type 1 diabetes patients. The HLA-DR3 and DR4 antigens are found 40% of the Caucasian population.	The patient has no HLA haplotype associated with type 1 diabetes. The DR3,DQ2 and DR4,DQ8 haplotypes are found in 95% of type 1 diabetes patients. The HLA-DR3 and DR4 antigens are found 40% of the Caucasian population.	The patient has no HLA haplotype associated with type 1 diabetes. The DR3,DQ2 and DR4,DQ8 haplotypes are found in 95% of type 1 diabetes patients. The HLA-DR3 and DR4 antigens are found 40% of the Caucasian population.	The patient expresses the HLA-DR4,DQ8 haplotype associated with type 1 diabetes. The DR3,DQ2 and DR4,DQ8 haplotypes are found in 95% of type 1 diabetes patients. The HLA-DR3 and DR4 antigens are found 40% of the Caucasian population.	The patient has no HLA haplotype associated with type 1 diabetes. The DR3,DQ2 and DR4,DQ8 haplotypes are found in 95% of type 1 diabetes patients. The HLA-DR3 and DR4 antigens are found 40% of the Caucasian population.
245	Absence of alleles that could constitute an haplotype at risk or protective for type I diabetes.	Presence of alleles DRB1*15/DQA1*01/DQB1*06 that could constitute a protective haplotype for type I diabetes.	Presence of alleles DRB1*07/DQA1*02/DQB1*03 (DQ9) that could constitute a protective haplotype for type I diabetes.	Presence of alleles that could constitute an haplotype at risk for type I diabetes: DRB1*04/DQA1*03/DQB1*02(8) (OR=8.39).	Presence of alleles DRB1*15/DQA1*01/DQB1*06 that could constitute a protective haplotype for type I diabetes.
331	Absence of DR3 ; Absence of DR4	Absence of DR3 ; Absence of DR4	Absence of DR3 ; Absence of DR4	Absence of DR3 ; Presence of DR4	Absence of DR3 ; Presence of DR4