

<b>Date</b>	<b>HbP no.</b>	<b>Request no. (A13-/A14-)</b>	<b>VII</b>		<b>CE</b>		<b>Alkaline gel</b>	<b>Acid gel</b>	<b>Remarks</b>
			HbA2 (%)	HbF (%)	HbA2 (%)	HbF (%)			
17/6/13	857	345080	2.1	0.5	2.6	No peak	HbA & A2 band	A band only	VII: broad A <sub>0</sub> . Reportable
12/7/13	1016	383740	0.7	0.3	2.5	No peak	HbA & A2 band	Not done	Interference. Not reportable
31/7/13	1135	413740	0.6	0.3	2.4	No peak	HbA & A2 band	A band only	
2/8/13	1160	417863	1.1	0.8	2.3	No peak	HbA & A2 band	A band only	VII: Unknown peak (29.9%) before A <sub>0</sub>
27/8/13	1314	453454 SID 13017726	0.6	0.3	1.7	No peak	HbA, faint A2 band and a band between F and S.	Not done	CE : A peak (38.1%) at Z6 and a peak (0.9%) at Z1. VII : D-window (33.9%) and S-window (0.8%). HbH: Occasionally seen
			UCH 0.6	UCH 0.3					
30/9/13	1507	494032 SID : 13017590	0.6	0.4	2.1	No peak	HbA & A2 band	Not done	Interference. Not reportable
28/10/13	1685	537312 SID: 13050592	1.0	0.3	2.8	No peak	HbA & A2 band	Not done	Interference. Not reportable
16/1/2014	31	118853 SID:13067859	1.2	0.9	2.5 2.7	No peak	HbA & A2 band	A band only	VII: unknown peak (29.3%) before A <sub>0</sub> . Occasional HbH. Interference. Not reportable.
20/3/2014	391	224945 SID:13128607	1.1	0.3	2.3	No peak	HbA & A2 band	Not done	Interference. Not reportable
<b>Date</b>	<b>HbP no.</b>	<b>Request no.</b>	<b>VII</b>		<b>CE</b>		<b>Alkaline gel</b>	<b>Acid gel</b>	<b>Remarks</b>

		(A14-)	HbA2 (%)	HbF (%)	HbA2 (%)	HbF (%)			
20/3/2014	391	224945 SID:13128629	1.0	0.3	5.3	No peak	HbA & A2 band	Not done	Interfering not report A2; A2 assessed to be increased by alkaline electrophoresis.
8/4/2014	506	251887 SID:13173198	3.7	0.4	3.6	No peak	Not done	No done	VII S window 26.5; CE: S 28.1 A2 3.6 A 68.3
8/5/2014	651	294130 SID:13185510	2.6 not reportable	1.4	2.6	0.5	HbA & A2 band	Peak between A and F	VII P3=46.0 rpt 46.6 Interfering not report A2; A2 assessed to be increased by alkaline electrophoresis.
2/7/2014	981	377758 SID:13234849	0.9 not reportable	2.2	5.5	1.9	HbA, F & A2 band	Not done	Interfering not report A2; A2 assessed to be increased by alkaline electrophoresis.
4/7/2014	1004	383503 SID:13174093	2.0	0.2		29.7	A band between F and S	A band near S	VII S window 29.3
7/7/2014	1012	386121 SID:13253268	2.5	0.4	2.7		A thick band at A position	A band at A position only	VII normal EMG; CE: Z11 42.3 A 55.0
28/7/2014	1156	419551 SID:13239652	2.4	0.5	2.2		NOT DONE	NOT DONE	VII: normal EMG; CE: Z11 37.9 A 59.8 A2 2.2

Date	Request no. (A14-)	VII		CE		Alkaline gel	Acid gel	Remarks
		HbA2 (%)	HbF (%)	HbA2 (%)	HbF (%)			
11/8/2014	443217	3.0	1.5	2.8	1.3	Not done	Not done	VII: normal EMG; CE: Z11 41.2, A 54.7
11/8/2014	443141	4.7	0.8	5.3	0.4	A2 increase; no abnormal band	Not done	VII: A <sub>0</sub> split into unknown 26.1, A <sub>0</sub> 58.5; CE: normal
15/9/2014	487285	2.8	0.96	2.9	0	Not done	Not done	VII: normal EMG; CE: Z11 38.6, A 58.5
16/10/2014	534688	1.8	0.2	1.4	0	Not done	Not done	CE: Z15:1.5, HbA:97.1, HbA2:1.4, moderate HbH
16/10/2014	536132	2.6	0.7	2.6	0.4	Not done	Not done	VII; normal EMG CE: Z11:35.2, HbA:61.8
14/11/2014	587449	1.8	0.1	1.8	0	Not done	Not done	CE: Z15:0.2, HbA:98, HbA2:1.8 Moderate HbH
17/11/2014	589959	19.5	1.5	4.1	0.4	Not done	Not done	CE: HbE zone:15.9
20/11/2014	595610	4.2	0.4	4.2	0	Fast moving band before HbA band	Weak band between A&F	CE: Z12:13.5, HbA:82.3, HbA2:4.2
12/12/2014	628716	25.8	0.5	3.3	0	Not done	Not done	CE :HbE zone:25.0

19/12/2014	639085	26.4	0.5	3.1	0	Not done	Not done	CE: HbE zone:26.3
22/12/2014	640228	27.3	0.6	3.9	0	Not done	Not done	CE: HbE zone:26.6
Date	Request no. (A14-)	VII		CE		Alkaline gel	Acid gel	Remarks
		HbA2 (%)	HbF (%)	HbA2 (%)	HbF (%)			
22/12/2014	640236	26.6	0.4	3.0	0	Not done	Not done	CE: HbE zone:27.8
5/1/2015	15A52765	2.4	0.2	2.2	30.0	Not done	A band near S	VII: S-window:28.6 CE: HbF/Hb variant: 30.0, Z1:0.9
28/1/2015	15A86029	1.6	1.7	1.1	1.5	Not done	Not done	VII: High injection peak CE: Z15:3.0, Z12:1.0, HbA:93.4, HbF: 1.5, HbA2:1.1, Moderate HbH
20/9/2016	16A1293979	3.2	0.6	2.0	29.3	Not done	Not done	VII: S-window:26.6, A2 not reportable CE: HbF/Hb variant: 29.3, Z1:0.9
8/2016	16A1225593	2.8	0.9	2.8	5.6	a band between F and S	A band only	VII: S-window 7.9 CE: HbF/Hb variant: 6.1,
27/9/2016	16A1296949	2.2	0.2	2.6	0	Not done	Not done	VII: A <sub>0</sub> showed abnormal shoulder and baseline uplifted. CE: A 97.6, A2 2.6 Turbo: variant window 40.0
5/10/2016	16A211943	3.9	0.2	3.7	0	Not done	Not done	VII: S-window 25.3 CE: HbS Zone 27.1

9/11/2016	16A233811	3.4	0.1	3.2	0	Not done	Not done	VII: S-window 39.6 CE: HbS Zone 40.9
Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A2	F	A2	F			
24/11/2016	16A238854	3.0	0.1	2.7	0	Not done	Not done	VII: S-window 34.5 CE: HbS Zone 39.2
25/11/2016	16A240651	3.5	55.6	3.1	59.0	Not done	Not done	CE: HbF/Hb variant 59.0 Turbo: F 51.6
20/12/2016	16A1408990	4.3	1.7	3.8	0.4			VII: C window 32.5, S window 1.1, A2 with 2 pks CE: Z10 0.9, A 64.7, F 0.4, D 30.2, A2 3.8 A2 and F not reportable
23/12/2016	16A1414515	2.4	0.9	2.4	0	Not done	Not done	VII: A0 showed abnormal shoulder CE: A 97.6, A2 2.4 Turbo: Unknown 20.5
24/12/2016	16A1413534	2.5	0.2	2.2	0	Not done	Not done	VII: no c window CE: A 96.9, A2 2.2, C zone 0.9

14/2/2017	17A704962	1.9	0.2	2.9	0	Not done	Not done	VII: D window 33.9, A2 1.9, F 0.2 CE:A 59.8, D 37.3, A2 2.9 A2 not reportable
17/7/2017	17A7246521	2.0	0.2	1.7	28.6	Not done	Not done	VII: S window 30.1, A2 2.0 F 0.2 CE: HbF 28.6, A2 1.7 HbF and HbA2 not reportable
12/9/2017	17A7330041	2.5	3.1	2.4	0	Not done	Not done	VII: unknown before A <sub>0</sub> : 40.6 CE: Z12:51.0, HbA:46.6, HbA2:2.4
15/9/2017	17A7337595	14.4	7.3	2.4	7.5	Not done	Not done	C E : Z 1 2 : 0 . 9 , H b A : 7 7 , HbF:7.5, E zone:12.2, A2:2.4 HbH occasionally seen
19/9/2017	17A7340738	26.8	1.4	3.7	0.3	Not done	Not done	CE: HbA:71.9, HbF:0.3, HbE:24.1, HbA2:3.7
22/9/2017	17A175341	26.5	0.6	3.3	0	Not done	Not done	CE:HbA 70.7, HbE zone:26.0, HbA2: 3.3
6/10/2017	17A182780	26.3	0.7	3.7	0	Not done	Not done	CE: HbA:71.4, HbE zone:24.9, HbA2:3.7
20/10/2017	17A7380714	26.8	1.9	4.2	0.5	Not done	Not done	CE:HbA:70.9, HbF:0.5, HbE zone:24.4, HbA2:4.2

23/10/2017	17A7386864	19.5	0.9	4.4	0	Not done	Not done	CE:HbA:79.0, HbE zone:16.6, HbA2:4.4
27/10/2017	17A7394084	27.4	1.3	4.2	0.2	Not done	Not done	CE: HbA:70.5, HbF:0.2, HbE zone:25.1, HbA2: 4.2
Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A2(%)	F(%)	A2(%)	F(%)			
27/10/2017	17A7392634	1.4	0.2	1.0	0.0	Not done	Not done	CE: Z15:4.8, Z12:0.3, HbA:93.9, HbA2:1.0
13/11/2017	17A7416164	25.1	0.7	3.4	0.0	Not done	Not done	HbA:73.1, HbE zone:23.3, HbA2:3.6
17/11/2017	17A7420687	2.2	2.2	2.1	0.0	Not done	Not done	VII: Unknown before A <sub>0</sub> :41.3 Z12:50.5, HbA:47.4, HbA2:2.1
17/11/2017	17A202153	1.4	0.8	1.3	0.0	No fast moving band seen	Not done	Numerous HbH seen No high injection peak was seen in VII Both CE and alkaline gel did not show HbH band. VII: P3 10.7 and abnormal A <sub>0</sub> shape seen. VII Turbo: A1a:2.0, A1b:4.6, unfit A1c peak
20/11/2017	17A7426817	1.2	1.1	1.2	0.4	Not done	Not done	CE:Z15:2.6, Z12:0.5, HbA:95.3, HbF:0.4, HbA2:1.2

27/11/2017	17A7434832	25.9	2.1	2.8	0.2	Not done	Not done	CE: HbA:71.7, HbF or Hb variant:0.4, HbF zone:0.2, HbE zone:24.9, HbA2:2.8
Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A2(%)	F(%)	A2(%)	F(%)			
1/12/2017	7437945	3.1	0.3	3.2	0.0	Not done	Not done	CE:Z11:44.2, HbA:52.6, HbA2:3.2, query Hb Kaohsiung
7/12/2017	7452101	27.1	1.9	3.0	0.3	Not done	Not done	CE:HbA:70.6, HbF:0.3, HbE zone:26.1, HbA2:3.0
5/1/2018	7002981	2.6	0.4	1.8	28.5	Not done	Not done	VII: S-window:24.7 CE: HbA:69.1, HbF or Hb variant:28.5, HbA2:1.8, Z1:0.6
28/3/2018	667726	18.4	1.7	3.6	0.6	Not done	Not done	CE: HbA:80.8, HbF:0.6, HbE:15.0, HbA2:3.6 Occ H seen
6/4/2018	7118335	1.7	0.2	1.1	0	Not done	Not done	Numerous H seen, VII:high injection peak at the beginning of run. CE: Z15: 8.7, Z12: 0.4, HbA: 89.8, HbA2: 1.1

9/4/2018	7122033	0.6	0.7	1.2	0	Not done	Not done	VII: D-window 43.8 at RT 4.09 CE: HbA:43.9, Z8:53.5, HbA2:1.2, HbC: 1.4
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Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A2(%)	F(%)	A2(%)	F(%)			
30/4/2018	7153431	2.4	2.2	2.2	0	Not done	Not done	VII: unknown 42.8 at RT 2.45, CE: Z12: 51.8, HbA 46.0, HbA2: 2.2
10/5/2018	687766	3.8	0.3	3.4	0	Not done	Not done	VII: S-window 31.8 at RT 4.33 CE: HbA 62.7, HbS 33.9, HbA2: 3.4
10/5/2018	7166008	26.9	1.7	3.9	0.3	Not done	Not done	CE: HbA 71.2, HbF 0.3, HbE 24.6, HbA2: 3.9
10/5/2018	688790	27.9	2.0	3.7	0.6	Not done	Not done	CE: HbA 70.7, HbF 0.6, HbE 25.0, HbA2: 3.7
7/6/2018	702111	27.2	0.6	3.7	0	Not done	Not done	CE: HbA 71.7, HbE 24.6, HbA2: 3.7
21/6/2018	7228206	4.3	12.2	4.1	13.9	Not done	Not done	CE: HbA 82.0, Hb F 13.9, HbA2: 4.1

23/8/2018	7320569	2.7	19.4	2.4	21.1	Not done	Not done	CE: HbA 76.5, HbF 21.1, HbA2: 2.4
23/8/2018	7322544	2.8	0.2	2.0	0	Not done	Not done	VII: S-window 26.7 at RT 4.53, unknown 0.6 at RT 4.69 CE: HbA 67.7, Hb variant 29.5, HbA2: 2.0, Z1: 0.8

Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
3/9/2018	7339204 SID:1U1277020	27.3	0.8	4.0	0	Not done	Not done	VII: A <sub>2</sub> =27.3, F=0.8 CE: E zone= 26.6, A= 69.4 A <sub>2</sub> = 4.0
10/5/2018	7343664 SID:1R0141376	18.9	1.0	3.0	0.2	Not done	Not done	VII: A <sub>2</sub> =18.9, F=1.0 CE: E zone=17.,6 A <sub>2</sub> =3.0, F=0.2, A=79.2
11/7/2019	SID: 1S1504583	1.7	0.5	2.5	0	Not done	Not done	VII: A <sub>2</sub> =1.7, F=0.5, S-window=33.8 CE: no abn peak, A=97.5 A <sub>2</sub> =2.5
26/7/2019	SID:16054381	2.6	0.5	2.2	0	Not done	Not done	VII: A <sub>2</sub> =2.6, F=0.5, C- window=0.5(15ul+1000uL) CE:HbA=97.4, HbA2=2.2,HbC zone=0.4 VII turbo: A <sub>0</sub> spike Query Hb Constant Spring.
5/9/2019	SID 1S1599568	5.1	1.9	5.3	1.2			MCV=84

10/10/2019	SID 1S1633774	2.7	2.9	2.3	0		VII: Unknown 41.0 behind A0 CE: Z12 51.3 HbH: occasional Query Hb-J Tonagariki associated with alpha-thalassaemia	
Date	Request no.	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
15/10/2019	SID 1A0578364	2.8	2.6	2.4	0			CE: Z11 37.5 HbH: Occasional MCV:74
17/10/2019	16138344	0.4	2.7	2.5	0			CE: Z11 45.6 MCV:86
29/10/2019	1S1660747	4.6	0.3	4.0	15.6			VII: S-window 13.8
1/11/2019	1A0587542	2.2	0.7	2.5	0			VII: Broaden A <sub>0</sub> , unknown:2.9, 0.7
22/11/2019	1S1693181	92.2	2.1	6.4	1.5			CE: E 90.1
2/1/2020	16154180	2.7	26.4	2.5	28.9			MCV:69
11/3/2020	1K0912008	29.3	0.5	3.2	0			VII: A <sub>2</sub> =29.3, F=0.5 CE: E zone= 24.8, A=72.0 A <sub>2</sub> = 3.2

10/3/2020	20A814988 16173183	2.8	0.2	1.6	29.6		VII: A2=2.8, F=0.2, S-window 27.2, Unknown at RT 4.71=0.5 CE: A=68.1, F/variant=29.6, A2=1.6, Z1=0.7	
6/4/2020	1K0925495	27.9	0.7	3.4	0		VII: A2=27.9, F=0.7 CE: A=72.4, F/variant=0, E=24.2, A2=3.4	
Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A2(%)	F(%)	A2(%)	F(%)			
14/5/2020	1U2269692	2.8	3.0	2.5	0			VII: Unknown between A <sub>0</sub> and A2=42.2 CE: Z12 50.8, A 46.7 A2 2.5
14/5/2020	1F0668710	2.0	1.1	2.2	0			VII: A <sub>0</sub> split with unknown between P3 and A <sub>0</sub> =36.1 CE: A 97.8 A2 2.2, normal graph
28/5/2020	20A7190872 1U2293224	29.1	1.1	3.3	0			VII: A2=29.1, F=1.1 CE: E zone=25.0 A2=3.3, F=0 A=71.7
1/6/2020	20A7198745 1S1953523	1.7	0.5	1.0	0			VII: high injection; numerous HbH CE: Z15(H) 9.0; Bart's 1.2; A 88.8, A2 1.0

6/7/2020	20A7250235 1S2005394	2.2	2.7	1.9	0		VII: A <sub>0</sub> at RT 2.01 with 46.4%, Unknown at RT 2.42 with 41.5% Variant might be misidentified as A <sub>0</sub> The presence of variant might interfere with the measurement of glycated Hb by HPLC. HbF might be falsely elevated. CE: Z12 50.4, A 47.7, A2 1.9 Variant might be J-Bangkok	
Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			

9/7/2020	20A7254793 1A0707938	4.9	1.1	4.5	0		VII: F 1.0/1.1; A2 5.0/4.9; normal graph CE: Band( 1 ) 95.5% at time 100-140 and band ( 2 )4.5% at 240; Repeat with normal A2 control: variant at Z11, A and A2 seen; Variant might be Homozygous Beta variant New York	
14/8/2020	20A7305536 1S2059958	1.3	1.5	2.4	0.5		VII: F=1.5, A2=1.3, unknown at RT 2.24, between P3 and A <sub>0</sub> = 39.2; A <sub>0</sub> slightly spilt into 2 peaks at top CE: normal graph, A=97.1; F=0.5; A2=2.4; occ HbH  Query Hb Hekinan (mainly in Japanese and Chinese; alpha variant) associated with alpha-thalassaemia	
27/8/2020	20A7332078 1K1026737	3.3	1.0	3.1	0		CE:Z11:46.0, HbA:50.9, HbA2:3.1, query Hb Kaohsiung	
Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
7/9/2020	20A82156 16203237	3.0	0.4	2.7	0			VII: normal chromatogram CE: Z11:43.8, HbA:53.5, HbA2:2.7 Query Hb Kaohsiung

10/9/2020	20A7348841 1E0411723	28.7	0.8	3.0	72.7			CE: HbA:72.7, HbE zone:24.3, HbA2:3.0
24/9/2020	20A7373668 1A0753794	2.5	0.5	2.2	97.8			VII: Shoulder base at A <sub>0</sub> CE: broaden HbA peak, Query Hb Phnom Penh
5/10/2020	20A92557 16207470	19.1	0.5	3.4	0.0			CE: HbA:82.0, HbE zone:14.6, HbA2:3.4
29/10/2020	20A7430928 1U2543042	2.5	0.4	2.2	97.8			VII: Shoulder base at A <sub>0</sub> CE: broaden HbA peak, Query Hb Phnom Penh
29/10/2020	20A7433628 1U2545460	26.7	0.7	2.9	0.0			CE: HbA:71.7, HbE zone:25.4, HbA2:2.9
2/11/2020	20A7442135 1A0779220	28.3	0.5	3.5	0.0			CE: HbA:71.6, HbE zone:24.9, HbA2:3.5
5/11/2020	20A7447075 1A0781984	41.1	0.4	3.0	0.0			CE:HbA:56.6, HbD zone:40.4, HbA2:3.0
Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
9/11/2020	20A7450026 1H0647223	28.7	0.8	3.3	0.0			CE: HbA:71.1, HbE zone:25.6, HbA2:3.3

Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
16/11/2020	20A113504 16202923	29.2	0.9	3.1	0.0			CE: HbA:71.2, HbE zone:25.7, HbA2:3.1
18/11/2020	20A114372 16234474	2.6	0.3	2.4	0.0			VII: A <sub>0</sub> shoulder base CE:HbA:97.6, HbA2:2.4, broaden HbA
18/11/2020	20A7467471 1U2579984	22.5	0.7	1.4	0.0			VII: F:0.5, A <sub>2</sub> : 22.5, S-window:0.4 CE:Hb Bart:0.7, HbA:75.1, HbD zone:22.4, HbA2:1.4, Z1:0.4
7/12/2020	20A7497420 1U2611047	94.0	2.1	4.2	1.4			VII: F:2.1, A <sub>2</sub> :94.0, Ao:3.1 CE:F:1.4, HbD (denatured HbE): 0.8, HbE:93.6, HbA2:4.2
10/12/2020	20A7504253	2.8	0.5	2.2	97.0			VII: c-window:0.5 (RT:4.92) CE: HbC zone:0.8 Turbo: A <sub>0</sub> spike, query Constant Spring
16/12/2020	20A7516339	3.1	0.5	2.7	97.3			VII: broaden A <sub>0</sub> peak CE: normal A <sub>0</sub> peak Turbo: unfit graph Hb variant cannot be excluded
11/1/2021	21A7011941	27.9	0.5	2.7	0.0			CE: HbA:73.5, HbE zone:23.8, HbA2:2.7

18/3/2021	7117923	2.5	0.3	2.0	0			VII: c-window:0.2 (RT:4.91) CE: HbC zone:0.4 Turbo: A <sub>0</sub> spike, query Constant Spring
29/3/2021	7141080	27	0.6	3.0	0			CE: HbA:72.6, HbE zone:24.4, HbA2:3.0
31/3/2021	7147997	27	1.1	3.0	0			CE: HbA:72.9, HbE zone:24.1, HbA2:3.0
12/4/2021	7161692	2.6	0.4	2.2	0			VII: c-window:0.3 (RT:4.92) CE: HbC zone:0.6 Turbo: A <sub>0</sub> spike not obvious, query Constant Spring
16/4/2021	7174431	30.2	0.5	2.9	0			CE: HbA:71.5, HbE zone:25.6, HbA2:2.9
21/4/2021	222074	25.8	0.6	3.0	0			CE: HbA:75.4, HbE zone:21.6, HbA2:3.0
26/4/2021	7190163	2.3	0.8	2.7	0			VII: broaden A <sub>0</sub> peak CE: normal A <sub>0</sub> peak Turbo: normal graph Hb variant cannot be excluded
28/4/2021	7195742	2.8	0.4	2.3	0			CE: HbA:60.8, HbS zone:36.9, HbA2:2.3 VII: F 0.4, A2: 2.8, S-window 35.6



Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
11/11/2021	21A7554071 1K374212	2.7	0.7	2.5	0			A1c sample, Turbo & D100: unfit GraphVII: Abnormal A <sub>0</sub> peak (sharp peak) CE: HbA = 97.5, HbA2 = 2.5, graph normal Comment: interference + Hb variant cannot be excluded.
15/11/2021	21A7550627 1U3235707	0.6	18.7	3.0	0			VII: F:0.6 A2:18.7 VII(+15uL): F:0.8 A2:17.9 S-window:0.1 VII (Turbo) : Variant Window : 24.0 CE: HbA:82.2 HbA2:3.0 HbE zone:14.4 HbC zone:0.4 After protein removal: HbA:82.0 HbA2: 3.1 HbE zone:14.5 HbC zone: 0.4 Rep HbH (H-)(H-)
29/11/2021	21A7582650 1K1388949	0.7	24.7	1.7	0			VII: F:0.7/0.7 A2:24.7/24.6 UNK:1.9/1.9 S-window:0.6/0.6 CE: HbA:73.4/73.5 HbA2:1.7/1.8 HbD zone:24.3/24.1 Z1 zone:0.6/0.6

Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
23/12/2021	21A7627672 1S2904585	2.0	90.0	8.9	89.5			VII : F:90.0/90.0, A <sub>2</sub> :2.0/2.0 CE : Hb A :9.0/8.9, Hb F 89.5/89.5, Hb A <sub>2</sub> :1.5/1.6 Hb A1c (21A7611951) : Previous IS
15/2/2022	22A0381123 16356501	2.5	0.4	2.3	0			VII: F:0.4/0.4 A <sub>2</sub> :2.5/2.6,A <sub>0</sub> shoulder base seen. CE: HbA:97.7/97.7 HbA2:2.3/2.3, broaden HbA peak.
3/3/2022	22A0387901	2.7	3.1	2.4	0			VII:F:3.1/3.1, A <sub>2</sub> :2.7/2.7, UNK:40.8/40.8 CE:Z12 ZONE:52.1/52.1, A:45.5/45.4, A <sub>2</sub> :2.4/2.5 Comment: Due to the presence of Hb variant, HbF Quantity cannot be determined.
17/3/22	7110027	29.1	0.8	2.8	0			CE: HbA:72.1, HbE zone:25.1, HbA2:2.2
24/3/22	22A7119061 1S3036277	30.4	0.5	3.2	0			CE: HbA:69.9, HbE zone:26.9, HbA2:3.2
Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			



28/7/22	22A7292234 1L0864688	0.4	2.3	2.0	0			VII: c-window: 0.1 (RT:5.01) 15ul pack cell+ 1ml wash buffer CE: HbC zone: 0.6 After protein removal: HbC zone 0.6 Suspect Hb Constant Spring
1/8/22	22A7295992	0.5	2.6	0	2.5			VII: F:0.5/0.5 A2:2.6/2.6,A <sub>0</sub> shoulder base seen. CE: HbA:97.5/97.6 HbA2:2.5/2.4, broaden HbA peak.
4/8/22	22A7301846 1S3233544	0.7	2.4	0	2.2			VII: c-window: 0.1 (RT:5.03) 15ul pack cell+ 1ml wash buffer CE: HbC zone: 0.6 After protein removal: HbC zone 0.6 Suspect Hb Constant Spring
4/8/22	22A7298848 1E0608887	2.0	26.8	0.3/0.9	3.6/3.8			CE: HbA:72.3/70.6, HbE zone:24.8/24.7, HbA2 3.6/3.8, Hb f or Hb variant: 0.3/0.9
8/8/22	22A7304808 1L0866673	0.6	30.8	3.2	0			CE: A 69.5/69.0, E 27.3/27.6, A23.2/3.4
18/8/22	22A7319104 1K1619614	88.3	2.6	4.9	1.8			VII: F:2.6/2.6 A2:88.3/88.5, A <sub>0</sub> :3.7/3.5 CE:F:1.8/1.9 HbD (suspected denatured HbE): 1.5/1.2, HbE:91.8/91.7, HbA2:4.9/5.2
22/8/22	22A0461133 16416195	1.6	0.4	1.2	0			VII: high injection; numerous HbH CE: H 3.2, A 95.6, A2 1.2

22/8/22	22A7324485 1S3257991	28.1	1.2	3.4	0			CE: A:71.6, E zone:25.3, A2:3.1
25/8/22	22A7335046 1S3269638	2.1	2.8	1.9	0			VII: A <sub>0</sub> at RT 1.98 with 47.2%, Unknown at RT 2.38 with 40.5% Variant might be misidentified as A <sub>0</sub> The presence of variant might interfere with the measurement of glycated Hb by HPLC. HbF might be falsely elevated. CE: Z12 50.9, A 47.2, A2 1.9 Variant suspected: J-Bangkok Previous reference case: 20A7250235

Date	Request no./ SID	VII		CE		Alkaline gel	Acid gel	Remarks
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
8/9/22	22A7350514 1S3286451	2.0	0.3	1.2	0			VII: Broaden A <sub>0</sub> CE: A:75.4, Borderline variant:23.0 (shifted HbS area), A2:1.2, Z1:0.4
15/9/2022	22A475788 16419546	2.6	0.3	1.6	28.6			VII:F:0.3/0.3, A2:2.6/2.6, S-window:26.0/26.0 CE:A:69.1/69.3, 8F/Variant:28.6/28.5, A2:1.6/1.6, Z1:0.7/0.6
26/9/2022	22A7379298	28.0	0.6	3.3	0.0			VII: F:0.6, A2:28.0 CE:HbA:72.0, HbE zone:24.7, HbA2:3.3
29/9/2022	22A7388885	27.2	0.6	3.0	0.0			VII: F:0.5, A2:27.3 CE:HbA:71.6, HbE zone:25.4, HbA2:3.0
5/10/2022	22A486192 1643184	2.6	0.3	2.5	0			A1c sample, D100: A1c peak shape (broad peak). LA1c-A1c unusual separation  VII: Abnormal A <sub>0</sub> peak (sharp peak) CE: HbA = 97.5, HbA2 = 2.5, graph normal Comment: interference + Hb variant cannot be excluded.

Date	Request no./ SID	VII	CE	Alkaline gel	Acid gel	Remarks
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21/11/2022	22A7474494	2.5	0.5	2.2	0.0		VII: F=0.5/0.5, A2=2.5/2.6, no c-window. 15ul packed cells: Unknown 0.2 at RT 4.89 , c-window: 0.1 at RT 5.02 CE: HbA=97.4/97.3, HbA2=2.2/2.3, Hbc zone=0.4/0.4 CE (After plasma removal): HbA=97.3 HbA2=2.3 Hbc zone=0.4 D100: A <sub>0</sub> spike  The presence of haemoglobin variant cannot be excluded.  Reject case (by Dr. Li) 22A7476088(1F1130918)  15ul packed cells : C-window 0.1 at RT 5.00
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)		
2/12/22	22A515135	2.8	0.2	1.8	27.4		Due to the presence of Hb variant, quantity of HbF and HbA2 cannot be determined  Rpt HbH: H-/H-, H-/H- VII: F:0.2/0.2, A2:2.8/2.8, S-window:25.7/25.9 at RT 4.54 CE: HbA:70.0/68.9, HbF or Hb variant: 27.4/28.5, HbA2:1.8/1.9, Z1 zone: 0.8/0.7

20/1/2023	23A7021377	3.0	2.6	3.0	<b>0</b>			Comment: Due to the presence of Hb variant, quantity of HbF cannot be determined.  Laboratory Comment: VII: F=2.6/2.6 A2=3.0/3.0 UNK=39.6/39.3 between A <sub>0</sub> and A2 CE: Z12 zone=51.5/51.6 HbA=45.5/45.4 HbA2=3.0/3.0
		A <sub>2</sub> (%)	F(%)	A <sub>2</sub> (%)	F(%)			
9/2/2023	23A7053876 1H1018025	3.1	0.6	3.0				VII: F= 0.6/0.6, A2= 3.1/3.0, normal chromatogram CE: Z11 zone= 43.7/43.6, Hb A= 53.3/53.3, HbA2= 3.0/3.1 Query Hb Kaohsiung.
6/3/2023	23A7099794	2.2	0.3	1.2				VII: F=0.3/0.3, A2=2.2/2.2, S-window =33.8/33.9, unk at RT 4.62=0.9/0.9 CE: HbA=61.7/61.6, HbD zone=36.2/36.2, HbA2=1.2/1.2, Z1=0.9/1.0
16/3/2023	23A7117437	2.2	0.6	2.5				VII: broaden A <sub>0</sub> peak, Hb variant cannot be excluded
16/3/2023	23A7120973	25.8	1.1	3.1				VII: F=1.1/1.0, A2=25.8/25.8 CE: HbA=73.1, HbE zone=23.8, HbA2=3.1

16/3/2023	23A7123143	4.3	2.3	3.8			VII: F=2.3/2.3, A2=4.3/4.2, S- window=24.6/24.5 CE: HbA 70.4/70.3, HbD=25.8/25.8, HbA2=3.8/3.7, HbF=-/0.2 ICT neg
20/3/2023	23A7126129	1.1	0.4	2.9			VII: F=0.4/0.4, A2=1.1/1.1, D- window=34.5/34.1 CE: HbA 57.1/57.1, HbD=40.0/40.0, HbA2=2.9/2.9
30/3/2023	23A574961	2.3	0.9	2.1			VII: F: 0.9 A2:2.3, A <sub>0</sub> shoulder base CE: HbA:97.9 HbA2:2.1, broaden HbA peak.
30/3/2023	23A7144653	28.4	1.9	3.2			VII: F=1.9, A2=28.4, unk=2.5 CE: HbA=70.6, HbE zone=26.2, HbA2=3.2 Due to the presence of Hb variant, quantity of HbF cannot be determined.
6/4/2023	23A7156469	5.4	0.7				VII: F 0.7; A <sub>2</sub> 5.4; normal graph CE: Band( 1) 94.2% at time 110-140 and band (2 ) 5.8% at 240-250; Repeat with normal A2 control: no zones separated: peak 1: 60.4 at time 100-130, peak 2: 34.8 at time 130-150, peak 3: 4.8 at time 230-240 5ul patient + 13ul normal A2: zones separated. Z11: 36.5, HbA 59.4, HbA2: 4.1 Suspect compound heterozygous of beta Thal & Hb New York (e.g. β <sup>0</sup> Thal & HbNY)

20/4/2023	23A7176731	27.5	0.9	2.8			VII: F=0.9/0.9, A2=27.5/27.8, unk=2.6/2.6 CE: HbA=71.6/71.2, HbE zone=25.6/25.7, HbA2=2.8/3.1
24/4/2023	23A7180015	2.7	2.8	2.4			VII: F=2.8/2.8, A2=2.7/2.6, unk=39.4/39.6 at RT 2.39 CE: Z12: 51.7/51.7, HbA=45.9/45.8, HbA2=2.4/2.5
24/4/2023	23A7185185	1.5	0.6	1.1			VII: F=0.6, A2=1.5, unk=0.6 at RT 4.66 CE: HbA=98.4/98.2, HbA2=1.1/1.2, Z1: 0.5/0.6 The presence of Hb variant cannot be excluded. Suspect delta chain variant
11/5/2023	23A7211188	29.2	1.8	3.5			VII: F=1.8/1.7, A2=29.2/29.4, unk=2.7/2.5 CE: HbA=70.7/70.1, HbF=0.6/0.9, HbE zone=25.2/25.3, HbA2=3.5/3.7
11/5/2023	23A7216753	2.4	27.6				VII: F=27.6/27.6, A2=2.4/2.4 CE: HbA=66.9/67.1, HbF=31.1/30.9, HbA2=2.0/2.0
10/5/2023	23A596478 (CBC case)	1.2	6.4	0.6	4.4		VII: high injection peak, F:6.4, A2:1.2, unknown: 1.8 at RT4.90 CE: Z15(?HbH):3.9, z12(?Hb Bart): 16.8, HbA:71.5, HbA2:0.6, HbF: 4.4, HbC zone: 2.8 HbH: moderate Query: <b>HbH-Constant Spring disease</b>

15/5/2023	23A7218582	42.9	0.2	2.7			VII: F=0.2/0.2, A2=42.9/42.9 CE: HbA=55.2/55.2, Hbd=42.1/42.1, HbA2=2.7/2.7
18/5/2023	23A7225537	3.3	0.2	3.1			VII: F= 0.2, A2= 3.3, normal chromatogram CE: Z11 zone= 35.1/35.2, Hb A= 61.8/61.8, HbA2= 3.1/3.0 MCV 70.4, ICT weak pos, H-/H_ /H-/H- Query Hb Kaohsiung.
25/5/2023	23A7240513	26.6	2.1	3.9	1.1		VII: F=2.1/2.1, A2=26.6/26.7, unk=2.1/2.1 CE: HbA=72.7/73.7, HbF=1.1/0.3, HbE zone=22.0/22.1, HbA2=3.9/3.7, HbC=0.3/0.2
25/5/2023	23A7243858	2.6	1.2	3.1			VII: F=1.2/1.2, A2=2.6/2.7, broaden A <sub>0</sub> peak CE: HbA=96.9, HbA2=3.1 The presence of Hb variant cannot be excluded
29/5/2023	23A7245207	3.1	30.6	2.8	34.5		VII: F=30.6/30.6, A2=3.1/3.1 CE: HbA=62.7/63.0, HbF=34.5/34.2, HbA2=2.8/2.8
1/6/2023	23A7250175	2.7	0.2	1.8			VII: F=0.2/0.2, A2=2.7/2.7, S- window=27.0/27.2, unk=0.6/0.6 at RT 4.71 CE: HbA=68.5/68.1, HbF or variant=29.0/29.4, HbA2=1.8/1.8, Z1=0.7/0.7
8/6/2023	23A610133	2.7	0.3	1.7			VII: F=0.3/0.3, A2=2.7/2.7, S- window=27.3/27.5, unk=0.5/0.5 at RT 4.70/4.71 CE: HbA=68.1/68.0, HbF or variant=29.5/29.6, HbA2=1.7/1.7, Z1=0.7/0.7

8/6/2023	23A7263451	1.8	0.6	1.9			VII: F=0.6/0.6, A2=1.8/1.8, unk 1.9/1.9, broaden A <sub>0</sub> peak CE: HbA=98.1, HbA2=1.9 The presence of Hb variant cannot be excluded
3/7/2023	23A7309727	2.8	0.3	1.8			VII: F=0.3/0.3, A2=2.8/2.8, S-window=27.4/27.5, unk=0.6/0.6 at RT 4.70 CE: HbA=68.0/67.9, HbF or variant=29.5/29.6, HbA2=1.8/1.8, Z1=0.7/0.7
13/7/2023	23A648408	2.2	0.4	2.5			VII: F=0.4/0.4, A2=2.2/2.2, D-window=8.7/8.7, S-window=0.3/0.4, CE: HbA=91.9/92.0, HbF or variant=5.3/5.2, HbA2=2.5/2.5, HbC=0.3/0.3
3/8/2023	23A7371039	24.9	0.6	3.6			VII: F=0.6/0.5, A2=24.9/24.9, CE: HbA=71.1/71.0, HbD=25.3/25.4, HbA2=3.6/3.6
8/8/2023	23A661596	2.3	0.4	2.5			VII: F=0.4/0.5, A2=2.3/2.3, D-window=7.9/7.8, S-window=0.3/0.4, CE: HbA=92.7/91.9, HbF or variant=4.5/5.3, HbA2=2.5/2.5, HbC=0.3/0.3 Similar graphs as 23A648408.
17/8/2023	23A7389981	2.2	0.4	2.6			VII: F=0.4/0.4, A2=2.2/2.2, enlarged Ao peak CE: HbA=97.4/97.6, HbA2=2.6/2.4
10/10/2023	23A7489305	4.4	0.8	3.5			VII: F=0.8/0.8, A2=4.4/4.4, S-window=0.4/0.4, C-window=32.9/32.8 CE: HbA 63.6/63.9, HbD=32.9/32.6, HbA2=3.5/3.5

9/11/2023	23A7554737	2.9	0.9	2.8			VII: F=0.9, A2=2.9 CE: HbA 51.9/51.8, Z11=45.3/45.5, HbA2=2.8/2.7 A1c: broaden A1c peak
13/11/2023	23A0310970	2.8	0.8	2.7			VII: F=0.8, A2=2.8 CE: HbA 52.3/52.3, Z11=45/45.1, HbA2=2.7/2.6
30/11/2023	23A7597274	2.5	1.0	2.1			VII: F=1.0/1.0, A2=2.5/2.5, unk=2.1/2.1 CE: HbA 97.1/97.1, HbA2=2.9/2.9 A1c: broaden A0 peak The presence of Hb variant cannot be excluded
29/1/2024	24A7053903	3.3	2.6	2.4			VII: Unknown between A <sub>0</sub> and A2=40.6 CE: Z12 50.9, A 46.7 A2 2.4
05/02/2024	24A7064499	3.2	0.7	2.9			VII: F=0.5 A2=3.2, no c-window. CE: HbA=57.6/5.7.7, HbA2=2.9/2.9, zone 11=39.1 Hbc zone=0.3/0.3 CE (After plasma removal): HbA=57.3 HbA2=2.9, zone 11=39.5 HbC zone=0.3 D100: A <sub>0</sub> spike  Hb variant + Query Hb constant spring

14/2/2024	24A7078721	2.6	1.1	2.3			VII: F 1.1 A2 2.3 VII(+15ul): F:1.2 A2:2.5 S-window:0.1 Unk(RT:4.89):0.3 CE: HbA:97.1/97.1 HbA2:2.3/2.3 Hb C zone:0.6/0.6 Query Hb Constant spring
19/2/2024	24A7090571	1.2	0.3				VII: F=0.3/0.3, A2=1.2/1.1, D- window=32.0/32.2 CE: HbA 60.4/60.3, HbD=36.7/36.8, HbA2=2.9/2.9
08/04/2024	24A7178646	15.7	0.7				VII: F 0.7/0.7, A2 15.7/15.8 CE: HbA 84.5/84.5, Abn Hb +Hb A2 15.5/15.5 D 100: E-window 17.36 ? Hb variant in HbA2 zone
11/04/2024	24A7185908	2.7	0.4				VII: UNK (RT 4.88):0.4, +15uL UNK (RT 4.88):0.5 CE: HbA:97.1/97.2 HbA2:2.2/2.2 Hb C zone:0.7/0.6 After protein removal: HbA:97.2 HbA2:2.2 Hb C zone:0.6 Query Hb Constant Spring
6/5/2024	24A7232151	See below	2.9				VII: F:0.5/0.5 A2:2.9/3.0 S-window:26.0/25.9 Unknown(RT 4.70): 0.7/0.6 CE: HbA:69.2/69.1 HbF or variant:28.2/28.2 HbA2:1.9/2.0 Z1 zone:0.7/0.7

6/5/2024	24A7232908	See below	<1.0					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 30%.  VII: F:0.9/0.9 A2:29.7/29.9 UNK:2.2/2.1 CE: HbA:71.5/71.3 HbA2:3.1/3.1 HbE zone:25.4/25.6
6/5/2024	24A7235943	<1.0	5.5					VII: F:0.4 A2:5.5; +15uL sample F:0.4 A2:5.4 CE: HbA:94.4/94.6 HbA:5.3/5.4 Hb C zone: 0.3/- Plasma protein removal: HbA:94.5 HbA2:5.5 <b>Not Hb Constant Spring informed SO</b>
16/5/24	24A0402400	<1.0	3.3					CE: HbA:52.2/52.3 HbA2:3.1/3.1 Z11 zone:44.7/44.6
16/5/24	24A7258002	See below	2.7					Due to presence of Hb variant, quantity of HbF cannot be determined.  VII: F:3.1/3.1 A2:2.7/2.7 UNK:41.2/41.1 CE: HbA:45.1/45.2 HbA2:2.6/2.5 Z12 zone:52.3/51.7 HbH suspected:-/0.3 HbF:-/0.3

6/6/24	24A7297109	27.1	0.8				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 27%.  VII: F:0.8/0.8 A2:27.1/26.7 CE: HbA:72.0/71.5 HbE zone:24.9/25.1 HbA2:3.1/3.4
11/6/24	24A7307749	2.8	<1.0				VII: F:0.7/0.7 A2:2.8/2.9 Unk:2.9/2.8 CE: Z11 zone:43.6/43.6 HbA:53.5/53.5 HbA2:2.9/2.9 HBH: 1H? ICT:Neg
11/6/24	24A7306449	26.6	0.8				VII: F:0.8/0.8 A2:26.6/26.6 Unk:2.0/2.0; <b>C- window (15ul) :0.4</b> CE: HbA:74.4/74.2 HbE zone:22.4/22.5 HbA2:2.9/3.0 <b>HbC zone:0.3/0.3</b> CE(Plasma Removal): HbA:73.6 HbE zone:22.8 HbA2:3.3 HbC zone:0.3
13/6/24	24A7310158	2.6	0.3				The presence of Hb variant cannot be excluded. VII: F:0.7/0.7 A2:2.0/2.0 (Broaden A0) Unk:2.2/2.2 CE: HbA:97.5/97.5 HbA2:2.5/2.5

27/6/24	24A425548	See below	0.3					presence of interfering substances HbA2 quantity could not be determined. VII: F:0.3/0.3 A2:0.9/0.9 CE: HbA:97.8/97.7 HbA2:2.2/2.3
2/7/24	24A7344860	28.4	0.9					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:0.9/0.9 A2:28.4/28.5 Unk:2.5/2.4 CE: HbA:72.0/72.1 HbE zone:25.1/24.9 HbA2:2.9/3.0
4/7/24	24A7351297	See below	1.4					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:1.4/1.4 A2:28.4.1/28/.5 CE: HbA: 72.2/72.2 HbE zone: 24.9/24.9 HbA2: 2.9/2.9
11/7/24	24A7364001	5.4	0.5					VII: F:0.5/0.5 A2:5.4/5.5 S-Window:16.0/16.0 CE: HbA:77.1/77.0 HbF or Hb variant:16.9/16.9 HbA2:4.8/4.9 Z1 zone:1.2/1.2 D100 : S-Window 19.50

18/07/24	24A0437091	2.9	2.3 (F: not report)				VII: F:2.3/2.3 A2:2.9/2.9 Unk:42/42.1 Z12 zone:50.4/50.2 HbA:46.9/47.0 HbA2:2.7/2.8 (A1c→HBP case)	CE:
25/7/24	24A7391915	See below	0.9				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 29%. VII: F:0.9/0.9 A2:29.0/29.1 Unk:2.4/2.4 CE: HbA:72.1/71.2 HbE zone:25.3/25.7 HbA2:2.6/3.1	
5/8/24	24A7415564	See below	5.9				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 26%. VII: F:5.9/5.9 A2:26.3/26.4 Unk:2.2/2.1 CE: HbA:71.5/68.5 HbA2:3.9/4.0 HbF or Hb Variant:1.9/5.4 HbE zone:22.7/22.1	
12/8/24	24A7427681	See below	1.2				Due to presence of Hb variant, quantity of HbA2 cannot be determined. VII: F:1.2/1.2 A2:1.9/1.9 D-Window:31.7/31.7 Unk 3.5/3.4 CE: HbA:62.3/62.2 HbA2:2.8/2.8 HbF zone:0.3/0.3 HbD zone:34.6/34.7	

15/08/24	24A7434925	2.8	0.7				The presence of haemoglobin variant cannot be excluded. HBH:H-/H- R:H-/H-VII(+15ul): HbA:85.8/85.5 HbA2:2.8/2.8 F:0.7/0.8 Unk(RT:4.89):0.1 CE: HbA:97.0/97.0 HbA2:2.4/2.4 HbC zone:0.6/0.6 After protein removal : HbA: 97.0, HbA2: 2.5, HbC zone:0.5 Query Hb Constant spring
15/08/24	24A7436443	2.2	0.3				An abnormal haemoglobin appears to co-elute with HbA. The presence of haemoglobin variant cannot be excluded. VII: A0:83.1/84.0 (A0 shoulder base) A2:2.2/2.1 F:0.3/0.3 Unk:1.9/1.7 CE: HbA:98.1/98.1 (Broaden HbA) HbA2:1.9/1.9
15/08/24	24A7434461	See below	See below				Due to the presence of Hb variant, quantity of HbF and HbA2 cannot be determined. VII: F:0.3/0.3 A2:2.7/2.5 S-window:25.7/25.8 CE: HbA:69.9/69.8 HbA2:1.6/1.6 HbF or Hb variant:27.9/28.0 Z1 zone:0.6/0.6 A1C + HBP

19/8/24	24A7446316	See below	See below				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 27%. Due to the presence of interfering substances, HbF quantity could not be determined. VII: F:1.9/1.9 A2:27.3/27.4 CE: HbA:70.9/70.8 HbA2:3.7/3.7 HbF or Hb variant:0.8/0.9 HbE zone:24.6/24.6
22/8/24	24A7451089	See below	1.1				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%.  VII: F:1.1/1.1 A2:27.6/28.0 CE: HbA:72.2/71.7 HbA2:2.7/2.9 HbE zone:25.1/25.4 A1c + HbP
22/8/24	24A7450838	See below	1.0				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 26%.  VII: F:1.0/1.0 A2:26.3/26.4 CE: HbA:73.5/73.3 HbA2:3.3/3.1 HbE zone:23.2/23.6

26/8/24	24A0455818	2.8	0.3				CE: HbA:96.3/96.2 HbA2:2.7/2.6 Z11 zone:1.0/1.2 Refer to SOP, Aged sample, degrader HbA may be present in zone 11.
29/8/24	24A7462131	1.3	0.6				CE: HbA:79.9/80.8 HbA2:0.7/0.7 HbH suspected:16.1/15.2 Hb Bart suspected:3.3/3.3
5/9/2024	24A7474824	See below	1.0				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:1.0/1.0 A2:28.1/28.1 CE: HbA:71.5/71.3 HbA2:3.4/3.5 HbE zone:25.1/25.2 A1c+HBP
5/9/2024	24A7476132	See below	1.0				h HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 18%. VII: F:1.0/1.0 A2:18.3/18.4 CE: HbA:82.1/81.9 HbA2:3.5/3.6 HbE zone:14.4/14.5 A1c+HBP

5/9/2024	24A7481816	See below	0.6					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:0.6/0.6 A2:27.6/27.6 CE: HbA:71.9/71.4 HbA2:3.1/3.3 HbE zone:25.0/25.3 A1c+HBP
12/9/2024	24A7487992	See below	See below					Due to the presence of Hb variant, quantity of HbF cannot be determined. High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:2.3/2.3 A2:27.5/27.6 CE: HbA:72.2/71.9 HbA2:3.4/3.5 HbE zone:24.4/24.6 (A1c+HBP)
23/9/2024	24A0468984	See below	See below					Due to the presence of Hb variant, quantity of HbF cannot be determined. High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%.Laboratory Comment: VII: F:1.3/1.3 A2:27.8/28.0 CE: HbA:71.2/71.0 HbA2:3.6/3.8 HbE zone:25.2/25.2 (A1c+HBP)

26/9/2024	24A7518199	2.4	0.6				The presence of Hb variant cannot be excluded. VII(+15ul): F:0.7 A2:2.4 Unk(RT:4.88):0.2 CE: HbA:97.4/97.3 HbA2:2.1/2.2 HbC zone:0.5/0.5 After Protein removal CE: HbA:97.5 HbA2:2.1 HbC zone:0.4 Query Hb Constant spring
30/9/2024	24A7523014	1.7	1.0				VII: F:1.0/1.0 A2:1.7/1.7 Unknown:16.6/16.7 CE: HbA:77.9/78.0 HbA2:2.0/2.0 Hb D zone:19.6/19.5 Z1 zone:0.5/0.5 A1c+HPB
30/9/2024	24A7526206	See below	0.9				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28%. VII: F:0.9/0.9 A2:27.9/28.0 CE: HbA:71.3/71.3 HbA2:3.6/3.6 Hb E zone:25.1/25.1 (A1c+HPB)
3/10/2024	24A7532793	2.4	0.4				The presence of Hb variant cannot be excluded. VII: A0:83.9 F:0.4 A2:2.4, repeat(15:1000): C-window 0.3 at RT:4.90 CE: HbA:97.4/97.4 HbA2:2.1/2.1 HbC zone:0.5/0.5 CE with plasma protein removal: HbA:97.4 HbA2:2.1 HbC zone:0.5 Query Hb Constant spring

3/10/2024	24A7529242	See below	0.4					Due to the presence of Hb variant, quantity of HbA2 cannot be determined. VII: F:0.4/0.3 A2:2.1/2.1 D-window:37.4/37.7 Unk:3.6/3.5 CE: HbA:56.3/56.1 HbA2:2.9/3.0 HbD zone:40.8/40.9 (A1c+HBP)
7/10/2024	24A7536399	See below	0.9					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 27%. VII: F:0.9/0.9 A2:26.8/27.0 CE: HbA:73.5/72.9 A2:2.9/3.1 HbE zone:23.6/24.0
7/10/2024	24A7538420	See below	0.5					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 29%. VII: F:0.5/0.5 A2:29.0/29.3 CE: A:69.5/69.5 A2:3.3/3.4 HbE zone:27.2/27.1
10/10/2024	24A7539826	2.2	0.3					VII: HbF:0.3/0.3 HbA2:2.2/2.1 Abnormal A0 peak CE: HbA: 92.5/90.8 HbA2:1.5/1.4 Z10 zone:6.0/6.4 Z11 zone:0.0/1.4

14/10/202 4	24A7549378	2.3	0.9				The presence of Hb variant cannot be excluded. Prev. HbHN HbF:<1.0 HbA2:2.5 UNKDR on 1/4/2008 VII(+15ul): HbF:0.9 HbA2:2.3 unknow:0.6 CE: (repeated) HbA:97.2/97.2 HbA2:1.9/1.9 HbC:0.9/0.9 (PPR) HbA:96.8/97.2 HbA2:1.9/1.9 HbC:0.9/0.9      Query Hb Constant spring
17/10/202 4	24A7558204	2.9	0.4				The presence of Hb variant cannot be excluded. VII: HbF:0.4/0.4 HbA2:2.9/2.9 UNK 2.8/2.8 Abnormal A0 peak CE: HbA:96.2/96.3 HbA2:2.7/2.7 Z11:1.1/1.0
21/10/202 4	24A7562100	See belo w	0.5				High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 27%. VII: HbF:0.5/0.5 HbA2:27.1/27.3 CE: HbA:73.6/73.4 HbA2:3.2/3.3 HbEz one:23.2/23.3
21/10/202 4	24A7563615	See belo w	0.5				Due to the presence of Hb variant, quantity of HbA2 cannot be determined. VII: HbF:0.5/0.5 HbA2:1.8/1.9 UNK:3.5/3.5 CE: HbA:62.3/62.4/62.4 HbA2: 2.7/2.7/2.7 HbD zone:35.0/34.9/34.9

24/10/2024	24A0483676	See below	2.1					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 26%. VII: HbF:2.1/2.0 HbA2:26.4/26.4 UNK:2.4/2.4 CE: HbA:72.3/71.3/71.1 HbA2:2.8/2.9/3.1 HbF:0.4/1.4/1.4 HbE zone:24.5/24.4/24.4 A1C+HBP
24/10/2024	24A0485539	3.1	0.3					The presence of Hb variant cannot be excluded. VII: HbF:0.3/0.3 HbA2:3.1/3.1, Abnormal A0 peak in VII CE: HbA:97.1/97.1 HbA2:2.9/2.9 A1C+HBP
28/10/2024	24A486133	See below	0.8					High HbA2 quantity may be due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 29%. VII: HbF:0.8/0.8 HbA2:28.6/28.7 UNK:1.9/1.9 CE: HbA:72.2/71.5 HbA2:2.9/3.4 HbE zone:24.9/25.1
17/7/25	25A0617722	1.6	<1.0					CE: HbH: 6.3/ 6.3, Hb Bart: 1.4/ 1.3, HbA: 91.2/ 91.4, HbA2: 1.1/ 1.0  HBP panel added due to HBH disease in A1c testing

17/7/25	25A7363909	See below	<1.0					High HbA2 quantity is due to the presence of Hb variant which co-elutes with HbA2. The combined quantity of HbA2 and the Hb variant was approximately 28.3%. VII: F: 0.4/ 0.4, A2: 28.3/ 28.2 CE: HbA: 73.8/ 73.2, E: 23.2/ 23.5, HbA2: 3.0/ 3.3
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