

**S4 Table. Diagnostic ratios obtained with the MS/MS assay for the four HbC-containing specimens corresponding to the amplification plots depicted in S3 Figure.**

Ratio	Cutoff	Results			
		HbC/A specimen #1	HbC/A specimen #2	HbC/A specimen #3	HbC/C specimen
HbS/HbA_1	2,67	0.0006	0.0011	0.0004	2.0043
HbS/HbA_2	3,17	0.0005	0.0007	0.0067	0.0061
<b>HbC/HbA_1</b>	1,0	<b>1.7474</b>	<b>2.0168</b>	<b>2.1743</b>	<b>2297.0952</b>
<b>HbC/HbA_2</b>	1,0	<b>10.2245</b>	<b>11.5384</b>	<b>10.751</b>	<b>104.5898</b>
HbE/HbA_1	0,19	0.0037	0.0092	0.0003	0.0001
HbE/HbA_2	0,19	0.0931	0.0417	0.0032	0.4258
HbD <sup>punj</sup> /HbA_1	1,0	0.0005	0.0007	0.0005	0.0052
HbD <sup>punj</sup> /HbA_2	1,0	0.0002	0.001	0.0002	0.0006
HbO <sup>arab</sup> /HbA_1	0,6	0.0203	0.0096	0.0243	0.0005
HbF/HbA_1		0.9399	0.9445	0.3758	2.1963
HbF/HbA_2		0.6409	0.4629	0.2087	1.0238
HbA/HbF_1		0.3014	0.2799	0.6443	0.017
HbA/HbF_2		0.4	0.4813	0.9356	0.1587