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भारतीय आयुर्विज्ञान अनुसंधान परिषद
INDIAN COUNCIL OF MEDICAL RESEARCH

वी. रामलिंगस्वामी भवन, अन्सारी नगर, पोस्ट बॉक्स 4911, नई दिल्ली - 110 029
V. RAMALINGASWAMI BHAWAN, ANSARI NAGAR, POST BOX 4911, NEW DELHI - 110 029

File No. 56/02/2023-SCD-TH/BMS

Date: 15.03.2024

Point of care tests (PoCT) validated for screening of Sickie Cell Disease (SCD) by ICMR areas following:

| S. No. | POCT | Year | Validating Site | Sample size | Sensitivity (%) | Specificity (%) |
|--------|--|------|--|-------------|-----------------|-----------------|
| 1. | BioSci True-Detect Sickie Cell Rapid Test Device | 2024 | ICMR-NIIH Mumbai & ICMR-CRMCH, Chandrapur | 120 | 100 | 100 |
| 2. | Vimek SUPERVELOCE Sickie Cell Rapid Test kit | 2024 | ICMR-NIIH Mumbai & ICMR-CRMCH, Chandrapur | 300 | 96.67 | 100 |

Note # Appropriate training of the field workers is required before use of the PoCT for avoiding errors in interpretation.



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NIIH
NATIONAL INSTITUTE OF
IMMUNOHAEMATOLOGY

आई सी एम आर - राष्ट्रीय प्रतिरक्षा रूधिर विज्ञान संस्थान

स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार
कल्याण मंत्रालय, भारत सरकार

ICMR-National Institute of Immunohaematology

Department of Health Research, Ministry of Health
and Family Welfare, Government of India.

Date: 05/03/2024

VALIDATION REPORT OF BioSci True-Detect Sickle Cell Rapid Test Device

ICMR-NIIH Mumbai evaluated the **BioSci True-Detect Sickle Cell Rapid Test Device** by testing normal, sickle cell trait and sickle cell disease individuals (adults) with HPLC results on 300 samples. Following are the details of the batches used for the evaluation from the **BioSci True-Detect Sickle Cell Rapid Test Device**

| Product Name | BioSci True-Detect Sickle Cell Rapid Test Device | | |
|--------------------|---|------------------------|------------------------|
| LIC. No. | MFG/TL/IVD/2022/000746 | MFG/TL/IVD/2022/000746 | MFG/TL/IVD/2022/000746 |
| Lot No | SCK2301 | SCK2302 | SCK2303 |
| Mfg. Date | DEC- 2023 | DEC- 2023 | DEC- 2023 |
| Exp. Date | NOV - 2025 | NOV - 2025 | NOV - 2025 |
| Total Test | 100 | 100 | 100 |
| Testing Start Date | 22/02/2024 | Completion Date: | 05/03/2024 |

Details of Gold Standard test:

| | |
|--------------|---|
| Product Code | Variant II β - thalassemia (HPLC) Kit |
| Product Made | Biorad |
| Lot No: | 0064AA |
| Mfg. Date | 13/01/2023 |
| Ex. Date | 13/01/2025 |

Name of the Institute: **ICMR-NIIH, Mumbai**

Name of the Director: Dr. Manisha Madkaikar, ICMR-NIIH, Mumbai

Phone No: 09892472552, Email ID: madkaikarmanisha@gmail.com

Name of the HOD: Dr. Prabhakar S Kedar, Scientist E,

Dept. of Haematogenetics, ICMR-NIIH, Mumbai.

Phone No: 9969007500, Email ID: kedarps2002@yahoo.com

Name of the Operator: Mrs. Pratibha Sawant (Technical Officer) and Mrs. Manju Gorivale (Technician)

Name of the Institute: **ICMR-CRMCH, Mumbai**

Name of OIC: Dr. Anand Bodade, Scientist E, CRMCH, Chandrapur.

Contact Details: 8080889764, Email ID: anand.bodade@icmr.gov.in

Name of Operator: Mr. Umesh Dhumne (Technical Officer, ICMR-CRMCH) Contact: 9822569572

Kedar

Results:

| Sample ID | Gold Test | Standard | BioSci True-Detect Sickle Cell Rapid Test Device | | | | Inference |
|-----------|-----------|---------------------|--|----|----|---------------------|--|
| | | | Band developed in Card | | | Diagnosis | |
| | | | C | HA | HS | | |
| 1. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 2. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 3. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 4. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 5. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 6. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 7. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 8. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 9. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 10. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 11. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 12. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 13. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 14. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 15. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 16. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 17. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 18. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 19. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 20. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 21. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 22. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 23. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |

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|-----|-----|---------------------|---|---|---------|---|---------|---------------------|--|
| 24. | AS | Sickle cell trait | + | + | (Faint) | + | (Faint) | Sickle cell trait | Both HPLC and POC card results matched |
| 25. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 26. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 27. | AA | Normal | + | + | (Faint) | - | | Normal | Both HPLC and POC card results matched |
| 28. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 29. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 30. | AS | Sickle cell trait | + | + | (Faint) | + | (Faint) | Sickle cell trait | Both HPLC and POC card results matched |
| 31. | SS | Sickle cell disease | + | - | | + | (Faint) | Sickle cell disease | Both HPLC and POC card results matched |
| 32. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 33. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 34. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 35. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 36. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 37. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 38. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 39. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 40. | AS | Sickle cell trait | + | + | (Faint) | + | (Faint) | Sickle cell trait | Both HPLC and POC card results matched |
| 41. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 42. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 43. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 44. | AA | Normal | + | + | | - | | Normal | Both HPLC and POC card results matched |
| 45. | BTM | Beta thal Major | + | - | | - | | Thal Major | Both HPLC and POC card results matched |
| 46. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 47. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 48. | SS | Sickle cell disease | + | - | | + | (Faint) | Sickle cell disease | Both HPLC and POC card results matched |
| 49. | SS | Sickle cell disease | + | - | | + | | Sickle cell disease | Both HPLC and POC card results matched |
| 50. | SS | Sickle cell disease | + | - | | + | (Faint) | Sickle cell disease | Both HPLC and POC card results matched |

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|-----|-----|---------------------|---|---|---|---------------------|--|
| 51. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 52. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 53. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 54. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 55. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 56. | BTM | Beta thal Major | + | - | - | Thal Major | Both HPLC and POC card results matched |
| 57. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 58. | BTM | Beta thal Major | + | - | - | Thal Major | Both HPLC and POC card results matched |
| 59. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 60. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 61. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 62. | SS | Sickle cell disease | + | + | + | Sickle cell disease | Both HPLC and POC card results matched |
| 63. | SS | Sickle cell disease | + | + | + | Sickle cell disease | Both HPLC and POC card results matched |
| 64. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 65. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 66. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 67. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 68. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 69. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 70. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 71. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 72. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 73. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 74. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 75. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 76. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 77. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |

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|------|-----|---------------------|---|---|---|---------------------|--|
| 78. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 79. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 80. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 81. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 82. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 83. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 84. | BTM | Beta thal Major | + | - | - | Thal Major | Both HPLC and POC card results matched |
| 85. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 86. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 87. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 88. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 89. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 90. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 91. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 92. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 93. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 94. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 95. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 96. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 97. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 98. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 99. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 100. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 101. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 102. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 103. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 104. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |

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|------|----|---------------------|---|------------------|---------------------|---------------------|--|
| 105. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 106. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 107. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 108. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 109. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 110. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 111. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 112. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 113. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 114. | SS | Sickle cell disease | + | - | + (Faint) | Sickle cell disease | Both HPLC and POC card results matched |
| 115. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 116. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 117. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 118. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 119. | AA | Normal | + | + (Faint) | - | Normal | Both HPLC and POC card results matched |
| 120. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 121. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 122. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 123. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 124. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 125. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 126. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 127. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 128. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 129. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 130. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 131. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |

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|------|----|---------------------|---|---|---|---------------------|--|
| 132. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 133. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 134. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 135. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 136. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 137. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 138. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 139. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 140. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 141. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 142. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 143. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 144. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 145. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 146. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 147. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 148. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 149. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 150. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 151. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 152. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 153. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 154. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 155. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 156. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 157. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 158. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |

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|------|----|---------------------|---|---|---|---------------------|--|
| 159. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 160. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 161. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 162. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 163. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 164. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 165. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 166. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 167. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 168. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 169. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 170. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 171. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 172. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 173. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 174. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 175. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 176. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 177. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 178. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 179. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 180. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 181. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 182. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 183. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 184. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 185. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |

Updon

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|------|----|---------------------|---|---|---|---------------------|--|
| 186. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 187. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 188. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 189. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 190. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 191. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 192. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 193. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 194. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 195. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 196. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 197. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 198. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 199. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 200. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 201. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 202. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 203. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 204. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 205. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 206. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 207. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 208. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 209. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 210. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 211. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 212. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |

Heard

| | | | | | | | |
|------|----|---------------------|---|---|---|---------------------|--|
| 213. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 214. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 215. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 216. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 217. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 218. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 219. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 220. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 221. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 222. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 223. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 224. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 225. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 226. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 227. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 228. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 229. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 230. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 231. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 232. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 233. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 234. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 235. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 236. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 237. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 238. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 239. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |

Heaton

| | | | | | | | |
|------|----|---------------------|---|---|---|---------------------|--|
| 240. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 241. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 242. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 243. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 244. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 245. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 246. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 247. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 248. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 249. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 250. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 251. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 252. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 253. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 254. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 255. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 256. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 257. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 258. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 259. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 260. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 261. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 262. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 263. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 264. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 265. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 266. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |


| | | | | | | | |
|------|----|---------------------|---|---|---|---------------------|--|
| 267. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 268. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 269. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 270. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 271. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 272. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 273. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 274. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 275. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 276. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 277. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 278. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 279. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 280. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 281. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 282. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 283. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 284. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 285. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 286. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 287. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 288. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 289. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 290. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 291. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 292. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 293. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |

| | | | | | | | |
|------|----|---------------------|---|---|---|---------------------|--|
| 294. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 295. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 296. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 297. | AA | Normal | + | + | - | Normal | Both HPLC and POC card results matched |
| 298. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |
| 299. | SS | Sickle cell disease | + | - | + | Sickle cell disease | Both HPLC and POC card results matched |
| 300. | AS | Sickle cell trait | + | + | + | Sickle cell trait | Both HPLC and POC card results matched |


Interpretation: All samples tested [(Normal (AA): 89 cases, Sickle cell trait (AS): 96 cases, Sickle cell disease (SS): 111 cases and Beta thal Major (BTM): 4 cases)] with the POC of **BioSci True-Detect Sickle Cell Rapid Test Device** showed 100% sensitivity, 100% specificity and 100% accuracy for all the tested hemoglobinopathies.

Remark: However, 7.66% of samples [23/300 (five cases of AA, nine cases of AS and 9 cases of SS samples)] showed a faint band.

Conclusion: The Indian Council of Medical Research (ICMR)-National Institute of Immunohematology, Mumbai have tested 120 samples [Normal (AA), AS (sickle cell trait), SS (sickle cell anaemia) and Beta thal Major (BTM)] **BioSci True-Detect Sickle Cell Rapid Test Device** kit as per the kit instructions and compared it with HPLC results. **BioSci True-Detect Sickle Cell Rapid Test Device** showed a satisfactory match with the HPLC gold standard results (Biorad Variant II). Needs improvement as 19.16% of cases showed faint band intensities which can give false negative or false positive interpretations.


Dr. Manisha Madkaikar
Director

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देशक / Director
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icmr
INDIAN COUNCIL OF
MEDICAL RESEARCH

NIIH
NATIONAL INSTITUTE OF
IMMUNOHAEMATOLOGY

आई सी एम आर - राष्ट्रीय प्रतिरक्षा रूधिर विज्ञान संस्थान

स्वास्थ्य अनुसंधान विभाग, स्वास्थ्य और परिवार
कल्याण मंत्रालय, भारत सरकार

ICMR-National Institute of Immunohaematology

Department of Health Research, Ministry of Health
and Family Welfare, Government of India.

Date: 21/02/2024

VALIDATION REPORT OF Vimek SUPERVELOCE SICKLE CELL RAPID TEST KIT

ICMR-NIIH Mumbai evaluated **Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.)** by testing normal, sickle cell trait and sickle cell disease individuals (adults) with HPLC results on 300 samples.

Following are the details of the batches used for the evaluation from **Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.)**

| | | | |
|--------------------|---|------------------|------------|
| Product Name | Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.) | | |
| Lot No | SCD24021 | SCD24022 | SCD24023 |
| Mfg. Date | FEB - 2024 | FEB - 2024 | FEB - 2024 |
| Exp. Date | JAN - 2026 | JAN - 2026 | JAN - 2026 |
| Total Test | 100 | 100 | 100 |
| Testing Start Date | 16/02/2024 | Completion Date: | 05/03/2024 |

Details of Gold Standard test:

| | |
|--------------|---|
| Product Code | Variant II β - thalassemia (HPLC) Kit |
| Product Made | Biorad |
| Lot No: | 0064AA |
| Mfg. Date | 13/01/2023 |
| Ex. Date | 13/01/2025 |

| |
|--|
| Name of the Institute: ICMR-NIIH, Mumbai |
| Name of the Director: Dr. Manisha Madkaikar, ICMR-NIIH, Mumbai Phone No: 09892472552, Email ID: madkaikarmanisha@gmail.com |
| Name of the HOD: Dr. Prabhakar S Kedar, Scientist E, Dept. of Haematogenetics, ICMR-NIIH, Mumbai. Phone No: 9969007500, Email ID: kedarps2002@yahoo.com |
| Name of the Operator: Mrs. Pratibha Sawant (Technical Officer) and Mrs. Manju Gorivale (Technician) |
| Name of the Institute: ICMR-CRMCH, Mumbai |
| Name of OIC: Dr. Anand Bodade Contact Details: 8080889764, Email ID: anand.bodade@icmr.gov.in Name of Operator: Mr. Umesh Dhumne (Technical Officer, ICMR-CRMCH) Contact: 9822569572 |

Pratibha

Results ICMR-NIIH and ICMR-CRMCH validated **Vimek SUPERVELOCE sickle cell rapid of Vimek BoConcept PVT test card. LTD.** by testing normal, sickle cell trait and sickle cell disease individuals and sample status was confirmed with HPLC Test

| Sample No. | Gold Standard Test | | Vimek SUPERVELOCE sickle cell rapid test card (Vimek BoConcept PVT. LTD.) | | | | | Inference |
|------------|--------------------|---------------------|---|-------|-------|-------|---------------------|--|
| | HPLC Test | Diagnosis | The band developed in Card | | | | Diagnosis | |
| | | | C | T1 HA | T2 HS | T3 HC | | |
| 1. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 2. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 3. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 4. | BTM | Beta thal Major | + | - | - | - | Thalassemia Major | Both HPLC and POC card results matched |
| 5. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 6. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 7. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 8. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 9. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 10. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 11. | BTM | Beta thal Major | + | - | - | - | Thalassemia Major | Both HPLC and POC card results matched |
| 12. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 13. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 14. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 15. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 16. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 17. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 18. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 19. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 20. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 21. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 22. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 23. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |

Yedav

| | | | | | | | | |
|-----|-----|---------------------|---|---|---|---|----------------------|--|
| 24. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 25. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 26. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 27. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 28. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 29. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 30. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 31. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 32. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 33. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 34. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 35. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 36. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 37. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 38. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 39. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 40. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 41. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 42. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 43. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 44. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 45. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 46. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 47. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 48. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 49. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 50. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 51. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 52. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |

Specimen

| | | | | | | | | |
|-----|-----|---------------------|---|---|---|---|----------------------|--|
| 53. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 54. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 55. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 56. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 57. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 58. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 59. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 60. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 61. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 62. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 63. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 64. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 65. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 66. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 67. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 68. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 69. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 70. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 71. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 72. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 73. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 74. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 75. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 76. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 77. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 78. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 79. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 80. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 81. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Bedar

| | | | | | | | | |
|------|-----|---------------------|---|---|---|---|----------------------|--|
| 82. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 83. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 84. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 85. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 86. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 87. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 88. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 89. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 90. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 91. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 92. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 93. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 94. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 95. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 96. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 97. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 98. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 99. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 100. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 101. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 102. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 103. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 104. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 105. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 106. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 107. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 108. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 109. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 110. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |

Medan

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|------|-----|---------------------|---|---|---|---|----------------------|--|
| 111. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 112. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 113. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 114. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 115. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 116. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 117. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 118. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 119. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 120. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 121. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 122. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 123. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 124. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 125. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 126. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 127. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 128. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 129. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 130. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 131. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 132. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 133. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 134. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 135. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 136. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 137. | BTM | Beta thal Major | + | - | - | - | Thalassemia Disorder | Both HPLC and POC card results matched |
| 138. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 139. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |

Yedon

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|------|----|---------------------|---|---|---|---|---------------------|--|
| 140. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 141. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 142. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 143. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 144. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 145. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 146. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 147. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 148. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 149. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 150. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 151. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 152. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 153. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 154. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 155. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 156. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 157. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 158. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 159. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 160. | AS | Sickle cell trait | + | + | - | - | Sickle cell trait | Both HPLC and POC card results matched |
| 161. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 162. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |

Y. Khan

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|------|----|---------------------|---|---|---|---|---------------------|--|
| 163. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 164. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 165. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 166. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 167. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 168. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 169. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 170. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 171. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 172. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 173. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 174. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 175. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 176. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 177. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 178. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 179. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 180. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 181. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 182. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Yedon

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|------|----|---------------------|---|---|---|---|---------------------|--|
| 183. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 184. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 185. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 186. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 187. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 188. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 189. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 190. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 191. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 192. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 193. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 194. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 195. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 196. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 197. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 198. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 199. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 200. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 201. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 202. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Y. Khan

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|------|----|---------------------|---|---|---|---|---------------------|--|
| 203. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 204. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 205. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 206. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 207. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 208. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 209. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 210. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 211. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 212. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 213. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 214. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 215. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 216. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 217. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 218. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 219. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 220. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 221. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 222. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Specimen

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|------|----|---------------------|---|---|---|---|--------------------------|---|
| 223. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 224. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 225. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 226. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 227. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 228. | SS | Sickle cell disease | + | + | + | - | Sickle cell trait | Both HPLC and POC card results Not matched |
| 229. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 230. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 231. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 232. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 233. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 234. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 235. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 236. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 237. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 238. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 239. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 240. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 241. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 242. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Yzedar

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|------|----|---------------------|---|---|---|---|---------------------|---|
| 243. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 244. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 245. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 246. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 247. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 248. | AS | Sickle cell trait | + | - | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 249. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 250. | SS | Sickle cell disease | + | + | + | - | Sickle cell trait | Both HPLC and POC card results Not matched |
| 251. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 252. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 253. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 254. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 255. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 256. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 257. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 258. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 259. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 260. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 261. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 262. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |

Yvelan

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|------|----|---------------------|---|---|---|---|---------------------|---|
| 263. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 264. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 265. | SS | Sickle cell disease | + | + | + | - | Sickle cell trait | Both HPLC and POC card results Not matched |
| 266. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 267. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 268. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 269. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 270. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 271. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 272. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 273. | AS | Sickle cell trait | + | - | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 274. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 275. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 276. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 277. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 278. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 279. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 280. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 281. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 282. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |

Yedra

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|------|----|---------------------|---|---|---|---|---------------------|---|
| 283. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 284. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 285. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 286. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 287. | AA | Normal | + | + | - | - | Normal | Both HPLC and POC card results matched |
| 288. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 289. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 290. | SS | Sickle cell disease | + | + | + | - | Sickle cell trait | Both HPLC and POC card results Not matched |
| 291. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 292. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 293. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 294. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 295. | SS | Sickle cell disease | + | - | + | - | Sickle cell disease | Both HPLC and POC card results matched |
| 296. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 297. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 298. | AS | Sickle cell trait | + | - | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 299. | AS | Sickle cell trait | + | + | + | - | Sickle cell trait | Both HPLC and POC card results matched |
| 300. | SS | Sickle cell disease | + | + | + | - | Sickle cell disease | Both HPLC and POC card results matched |

Interpretation: All samples tested for the POC of **Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.)** showed 96.67% sensitivity, 100% specificity and 98.6% accuracy for all the tested hemoglobinopathies.

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Conclusion: The Indian Council of Medical Research (ICMR)-National Institute of Immunohematology, Mumbai have tested 300 samples [Normal (AA), AS (sickle cell trait), SS (sickle cell anemia) and Beta thal Major (BTM) on **Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.)** kit as per the kit instructions and compared it with HPLC results. **Vimek SUPERVELOCE sickle cell rapid test card (Vimek Bioconcept PVT. LTD.)** showed 98.6% satisfactory match with the HPLC gold standard results (Biorad Variant II). Needs to improve band intensities of T1 (HbA) and T2 (HbS) position as they were found to very faint.

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