

US010907203B1

(12) **United States Patent**
McCord et al.

(10) **Patent No.: US 10,907,203 B1**
(45) **Date of Patent: Feb. 2, 2021**

(54) **DNA METHYLATION ASSAYS FOR BODY FLUID IDENTIFICATION**

(71) Applicants: **Bruce McCord**, Miami, FL (US);
Hussain Alghanim, Miami, FL (US)

(72) Inventors: **Bruce McCord**, Miami, FL (US);
Hussain Alghanim, Miami, FL (US)

(73) Assignee: **THE FLORIDA INTERNATIONAL UNIVERSITY BOARD OF TRUSTEES**, Miami, FL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/901,763**

(22) Filed: **Jun. 15, 2020**

Related U.S. Application Data

(62) Division of application No. 16/712,411, filed on Dec. 12, 2019, now Pat. No. 10,704,089.

(51) **Int. Cl.**
C12Q 1/68 (2018.01)
C12Q 1/686 (2018.01)
C12Q 1/6806 (2018.01)

(52) **U.S. Cl.**
CPC **C12Q 1/686** (2013.01); **C12Q 1/6806** (2013.01); **C12Q 2600/154** (2013.01)

(58) **Field of Classification Search**
None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

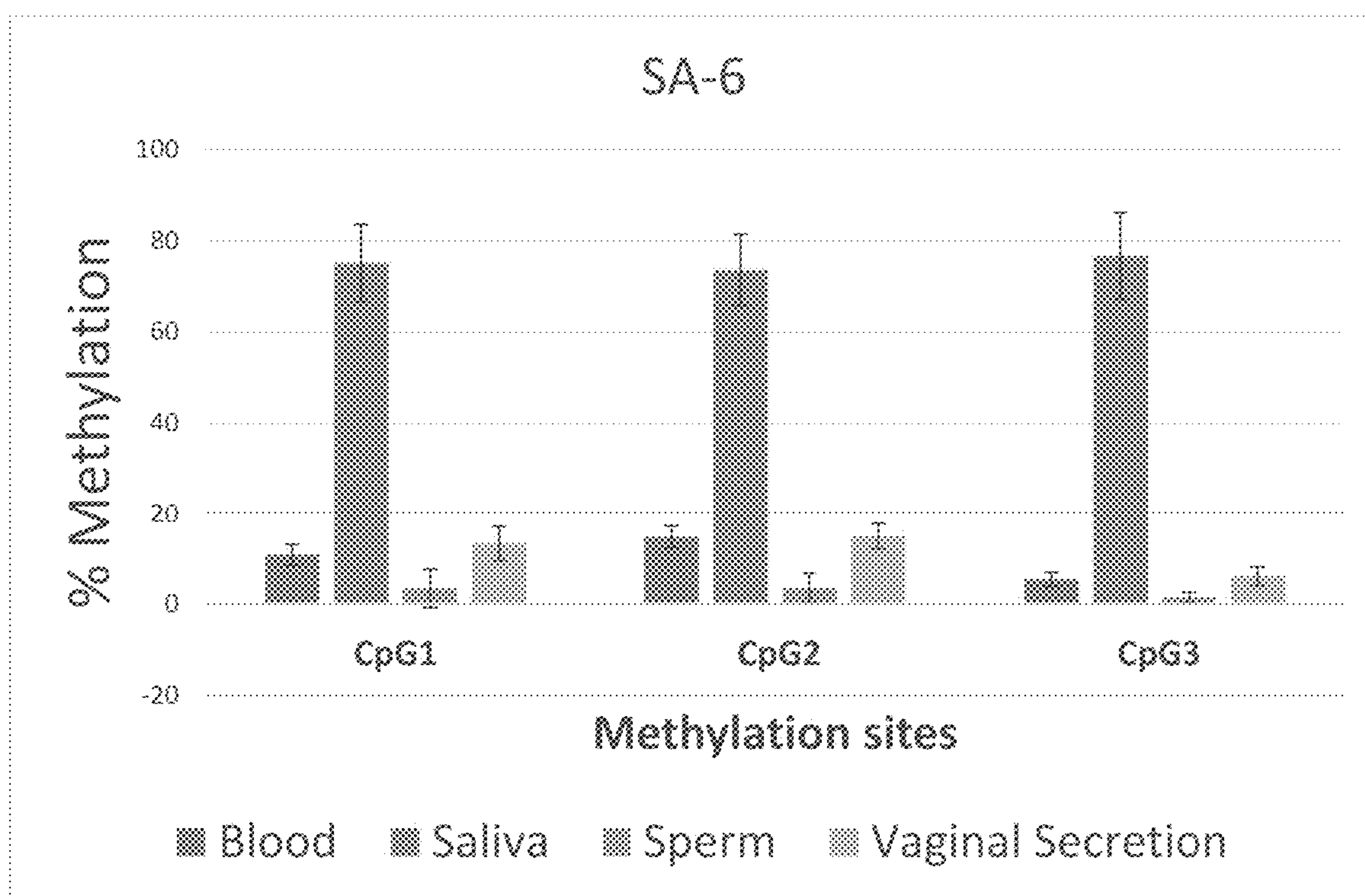


FIG. 3

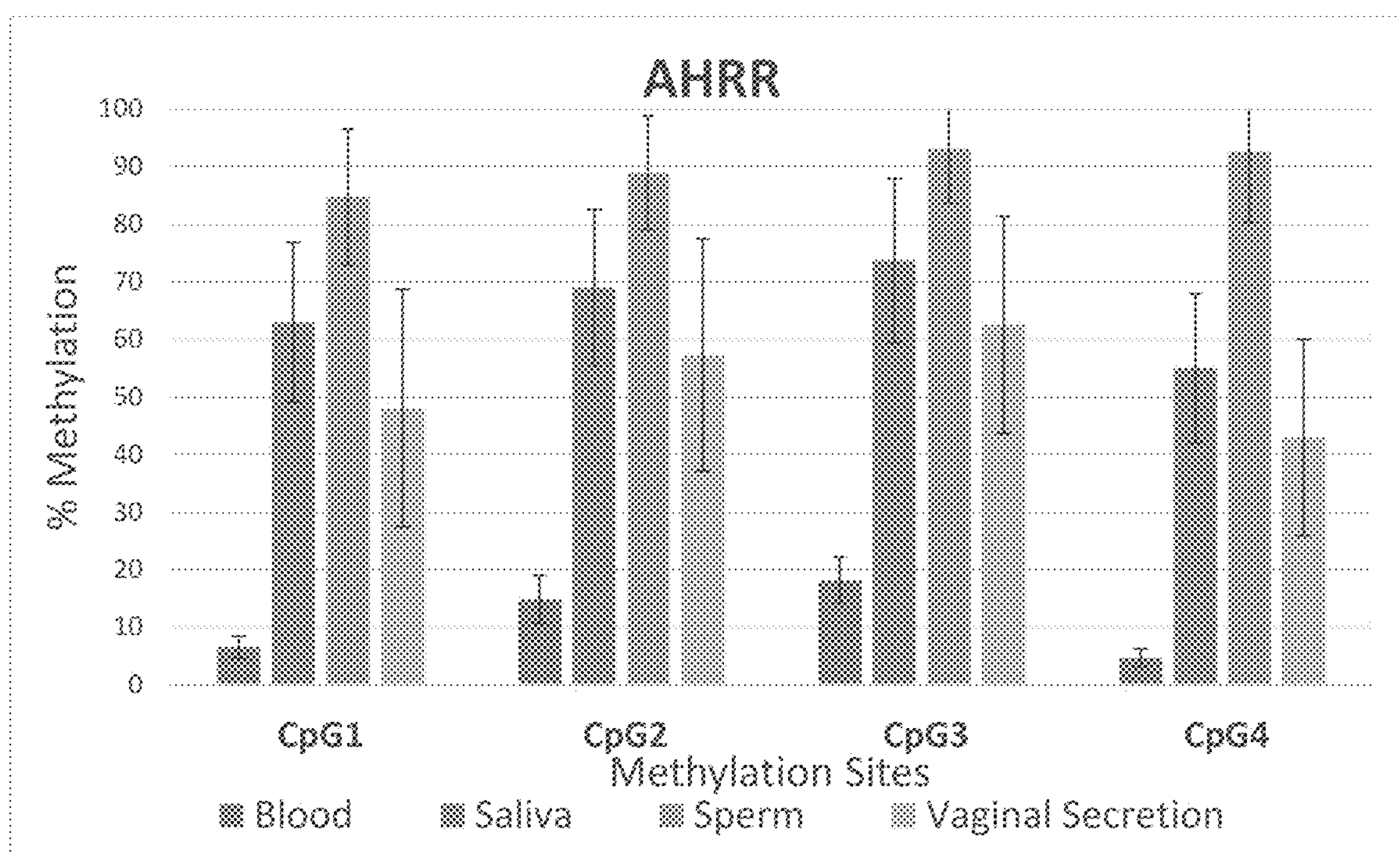


FIG. 4

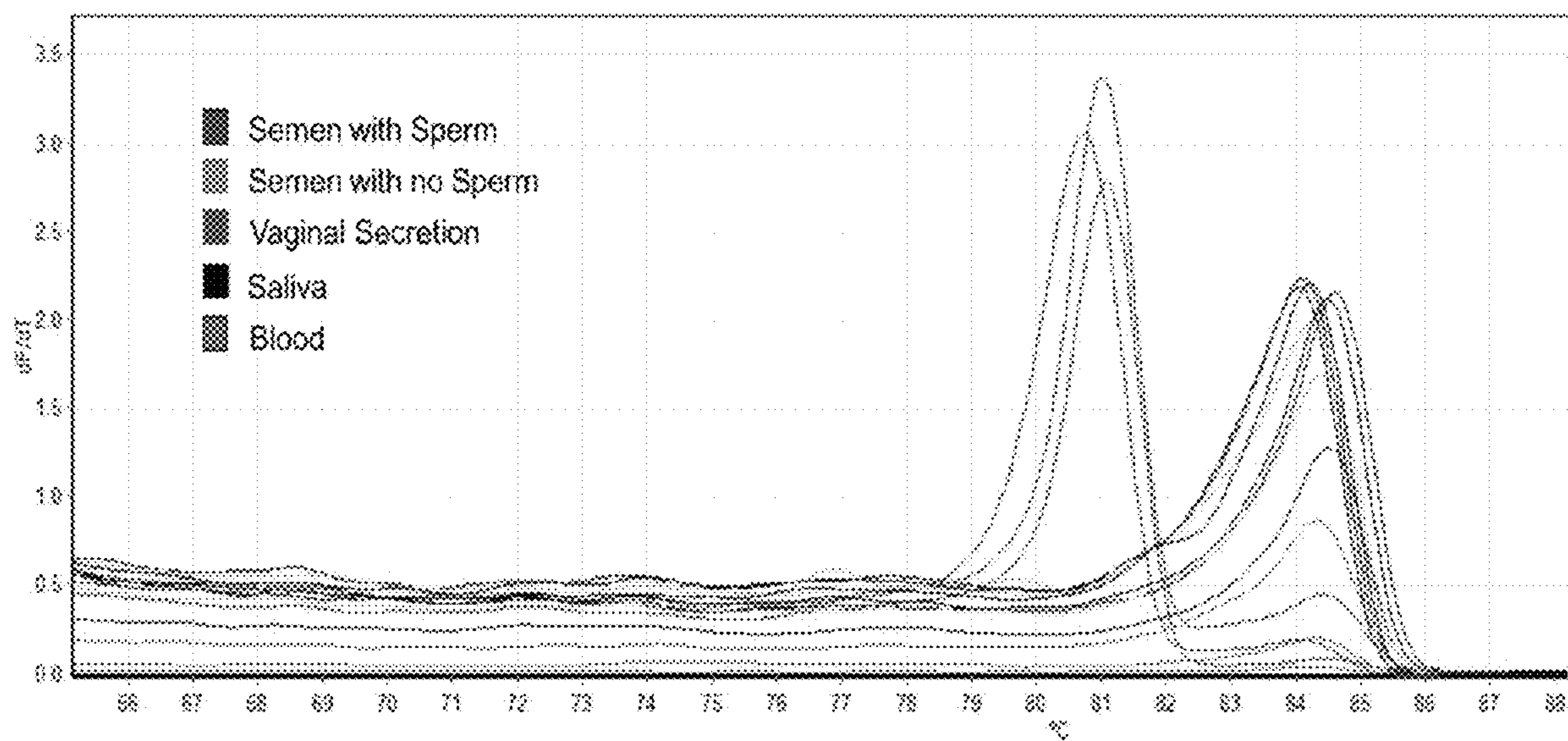


FIG. 5

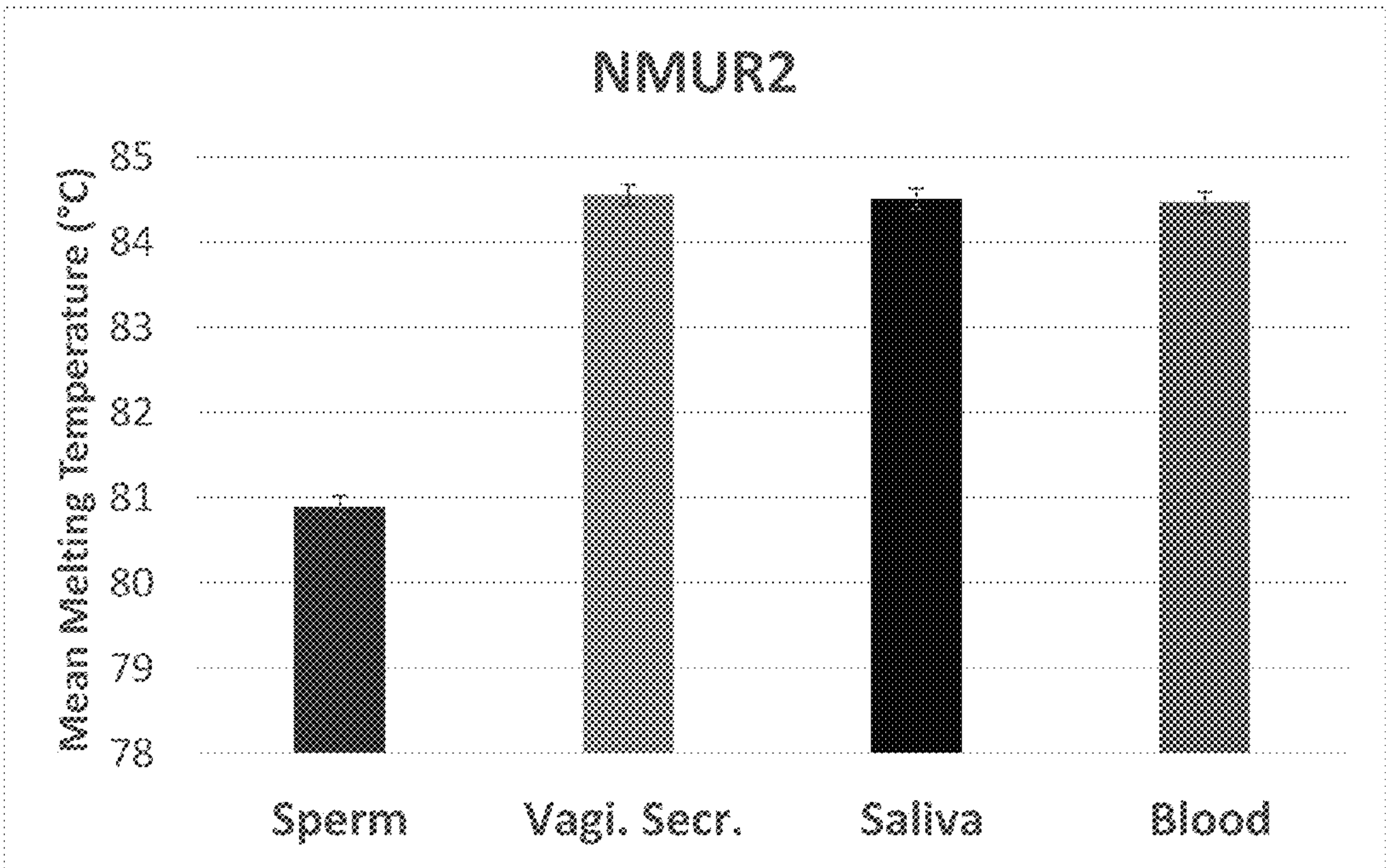


FIG. 6

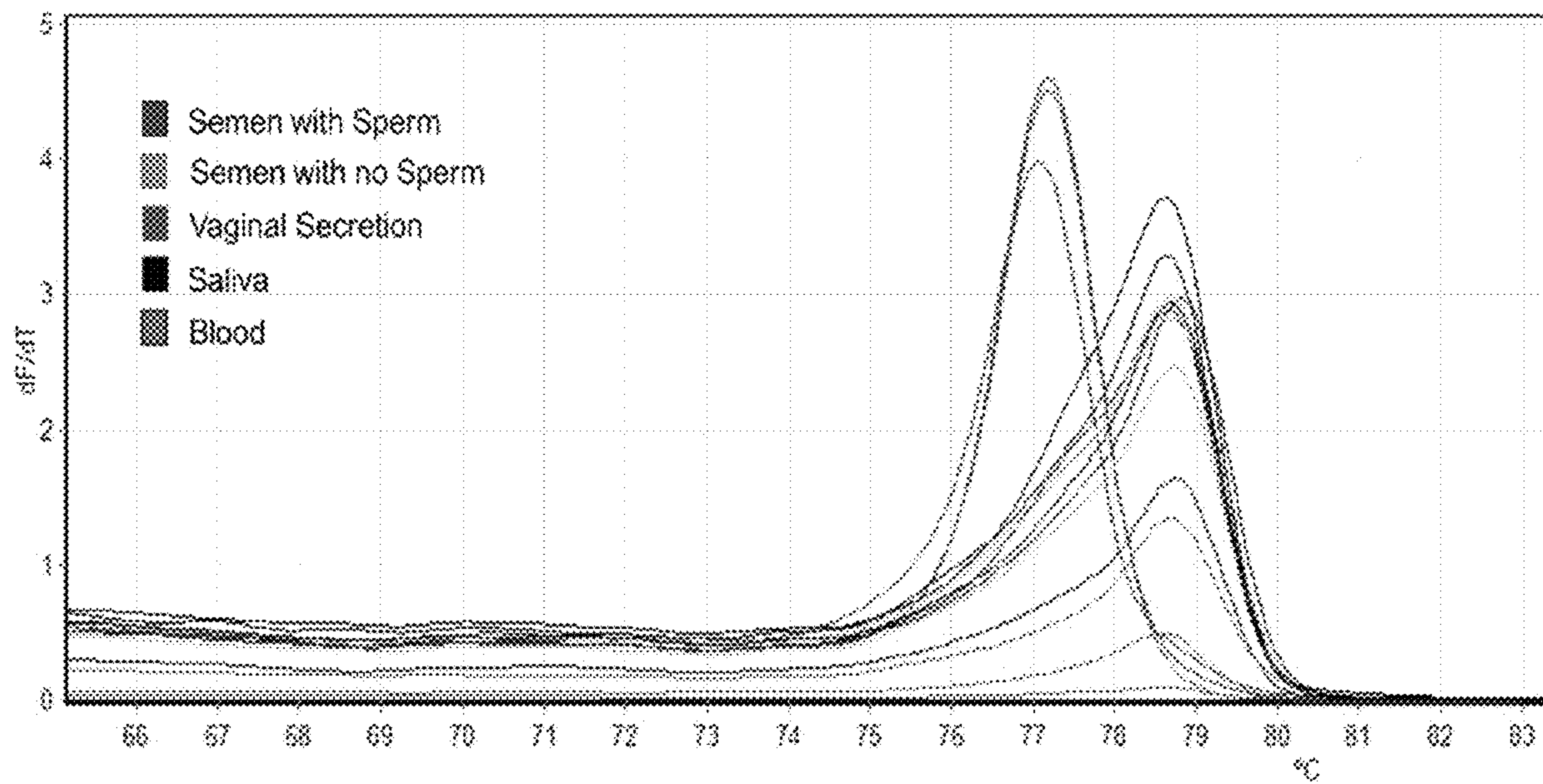


FIG. 7

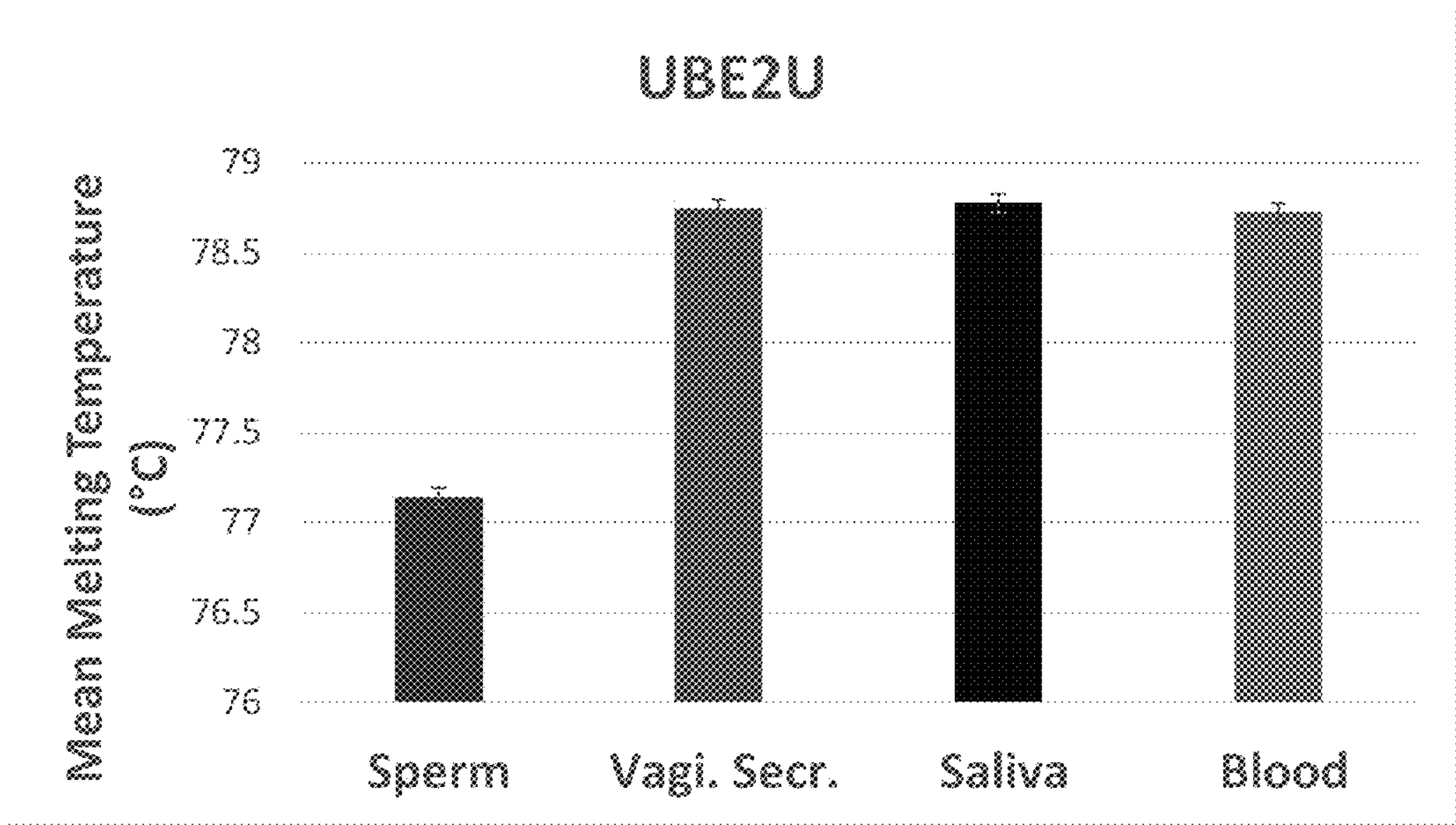


FIG. 8

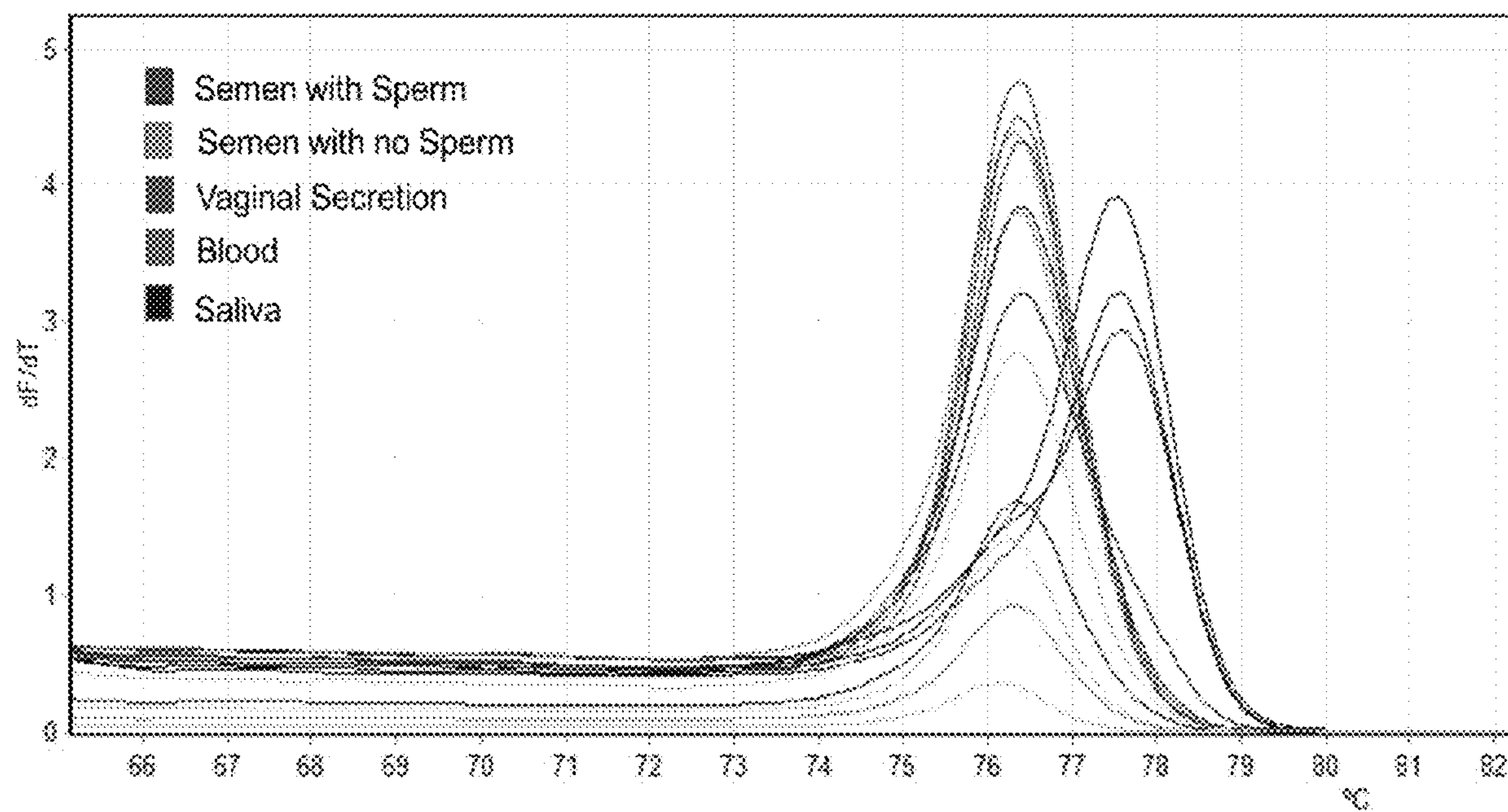


FIG. 9

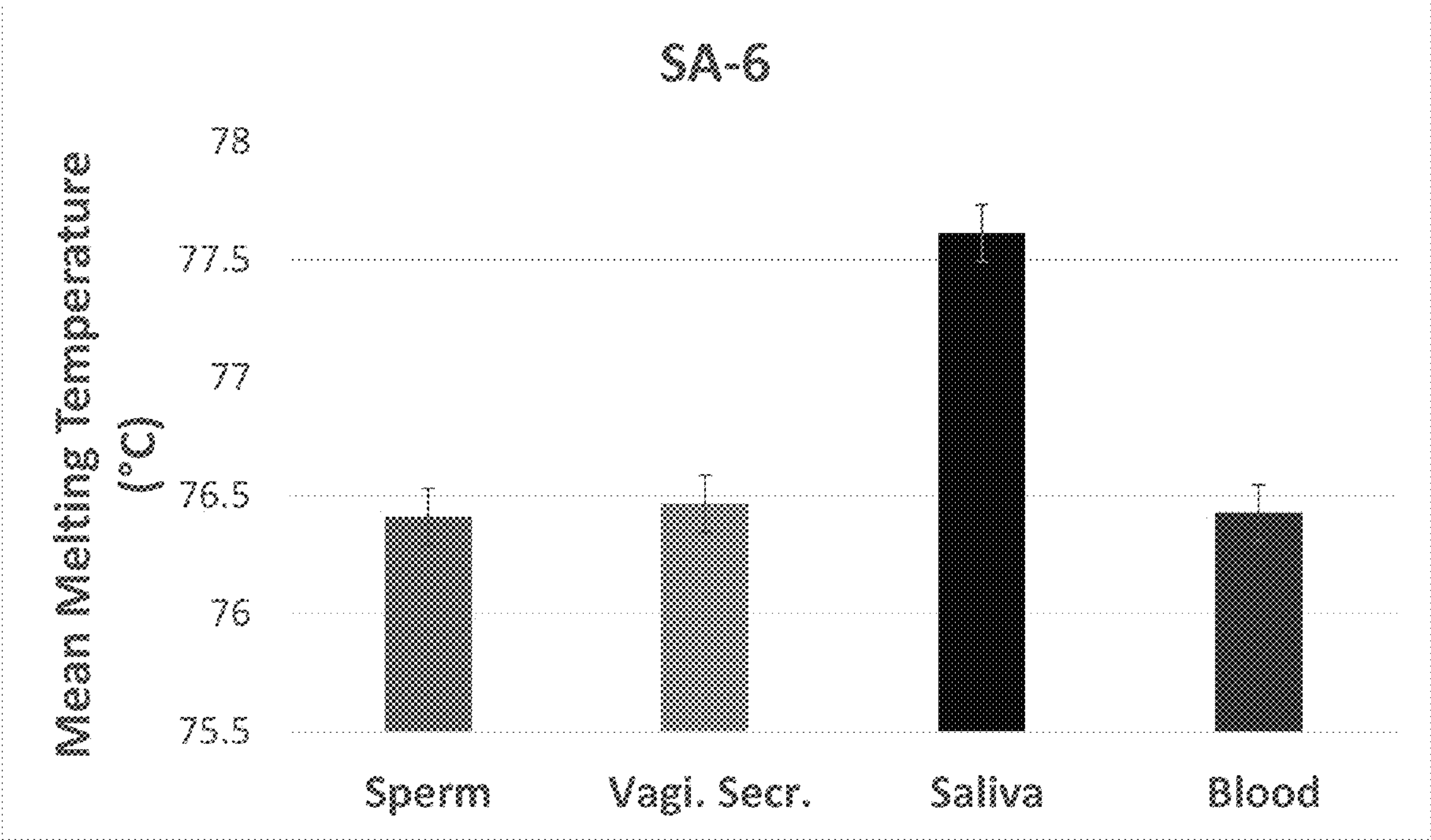


FIG. 10

