

“The ABACard® test has been extensively validated and shown to be sensitive, specific and rapid”

Presidents DNA Initiative

National Institute of Justice, U.S. Department of Justice

	Sensitivity	Specificity	Storage	Running Buffer Required	Extraction Buffer Required	Extraction Time (incl reagent prep)	Sensitivity Defined in ng/ml for QC purposes	Labor Intensive/ Extensive Prep required
ABACard® p30	Highest 0.02 µl to 0.0007 µl of semen <u>Ref</u>	Highest <u>Ref</u>	Room Temp, 20 months	No	No	5-30 mins	Yes (4 ng/ml)	No Single Step
Semenogelin	Lowest 1 µl of Semen <u>Ref 1</u> <u>Ref 2</u>	Lowest <u>Ref 1</u> <u>Ref 2</u>	Refrigeration required (2 buffers both need refrigeration)	Yes & Requires Refrigeration	Yes & Requires Refrigeration	1-2 hours	No (1 µl of semen) (Semen varies widely)	Yes Multiple Step
Cross Over Electrophoresis	Lowest 10 µl to 0.35 µl of semen	Highest	Refrigeration required	Yes & Requires Refrigeration	Yes & Requires Refrigeration	1-3 hours	Yes (4000 ng/ml)	Yes Multiple Step, Longest

“Currently, the preferred confirmatory test for human blood is Abacus Diagnostics’ ABACard® Hematrace®”

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	Sensitivity	Specificity	Storage	Running Buffer Required	Extraction Buffer Required	Extraction Time	Sensitivity Defined in µg/ml for QC purposes so that it can be defended and validated	Labor Intensive/ Extensive Prep required
Hematrace®	Highest 0.00033 µl of blood Ref	Highest Ref	Room Temp, 20 months	No	Yes, Store at Room Temperature	5 minutes	Yes (0.05 µg/ml)	No Single Step
Glycophorin	Lowest 1 µl of blood	Lowest Ref 1 Ref 2 Ref 3	Refrigeration required	Yes & Requires Refrigeration	Yes & Requires Refrigeration	1-2 hours	No (1 µl of blood)	Yes Multiple Preps
Hemastix	Higher 0.001 µl of blood	Lowest	Room Temp	No	No	1 minute	No	No

SALigAE[®] Protocol

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	Sensitivity	Specificity	Buffer Required	Extraction Time (incl reagent prep)	Ease of Use Visible result including availability of Spray Mechanism for mapping	Labor Intensive/ Extensive Prep required
SALigAE[®]	Highest <u>Ref</u>	Higher <u>Ref</u>	No	1-5 minutes	Yes Simple Color Change	No Ready to use
Salivary Amylase Antibody	Lowest	Higher	Yes, Multiple ones Needs Refrigeration	1-2 hours	No Mapping not available	Yes Long Prep Time
Radial Gel Diffusion	Medium	High	Yes, Multiple ones Needs Refrigeration	30 minutes	No Very cumbersome	Yes Very Long Prep Time
Liquid Phase Amylase Test	Highest	Lowest	Yes, Multiple ones	30 minutes	No Very cumbersome	Yes Very Long Prep Time