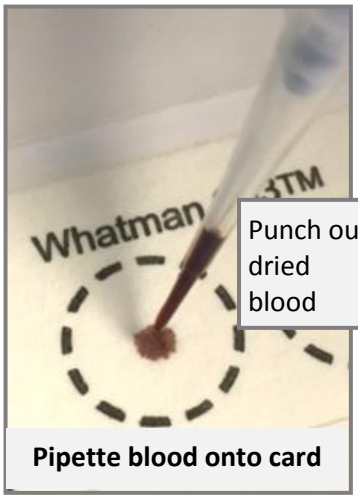
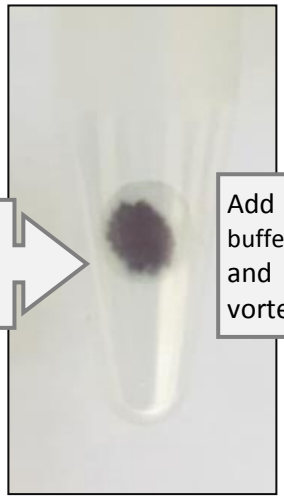
HemogloBind™
Dried blood card application

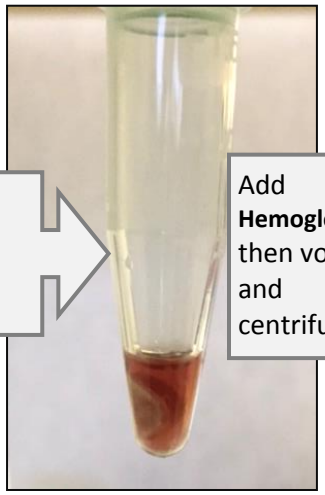
BIOTECH **SUPPORT** GROUP
Sample Prep that Matters



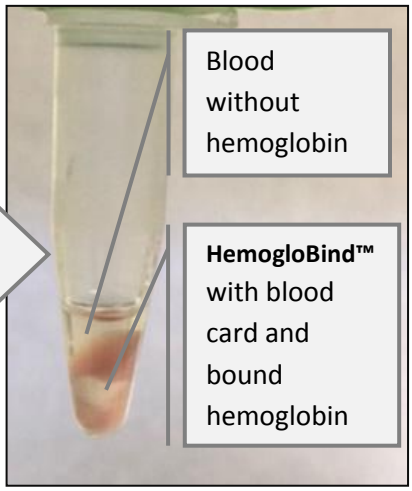
Punch out dried blood



Add buffer and vortex

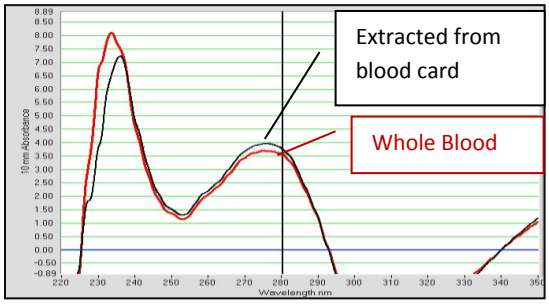


Add **HemogloBind™** then vortex and centrifuge



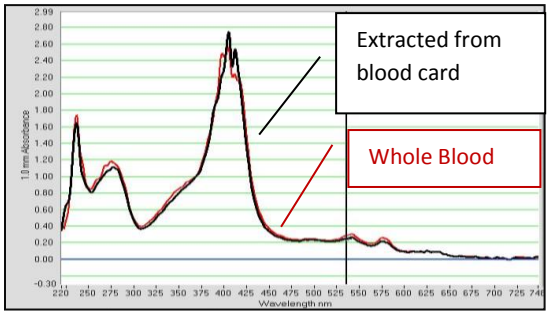
Experimental Protocol: Punch out 10 µl of dried blood from Whatman 903 dried blood card and add to centrifuge tube. Add 100 µl of extraction buffer (0.01M KPO_4 pH 7) and vortex for 30 minutes then centrifuge for 5 minutes at 10,000xg. Add 1:10 v/v ratio, sample:**HemogloBind™** suspension and vortex for 10 minutes then centrifuge for 4 minutes at 10,000xg. Supernatant contains the blood proteome severely depleted of hemoglobin.

Comparison of blood proteome efficiently extracted from the dried blood



280nm

Total Protein Spectrum

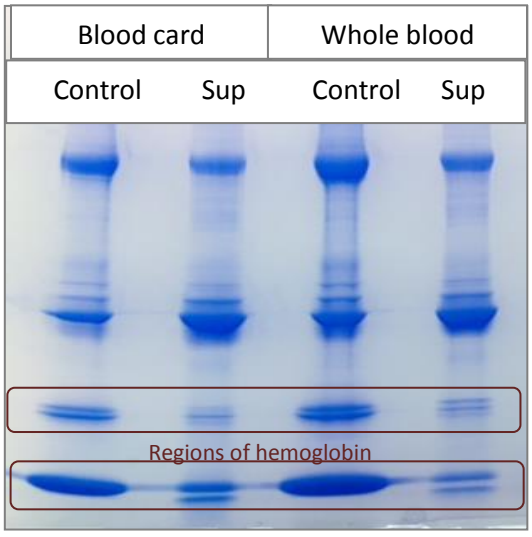


410nm

Hemoglobin Specturm

Comparision of blood proteome efficiently depleted of Hemoglobin using HemogloBind™ from both whole blood and from the dried blood

Sup – Supernatant after HemogloBind™



References For Dried Blood Spots

Citation: Michelle R. Robinson, Lei Guo; Raymond J. Gonzalez; Kara M. Pearson; Kevin P. Bateman; Daniel S. Spellman. Differentiating Modes of Drug Induced Liver Injury Using Parallel Reaction Monitoring LC-MS. ASMS Conference 2017 poster report. *"Hemoglobin depletion improves PRM panel coverage in DBS and volumetric adsorptive microsampling (VAMS)".*

Citation: Hakuna, Lovemore, et al. "A simple assay for glutathione in whole blood."*Analyst* (2015). (http://pubs.rsc.org/en/content/articlelanding/2015/an/c5an00345h)
"…Hb can be removed using a commercial product, HemogloBind™, which can isolate and remove up to 90% of blood Hb."