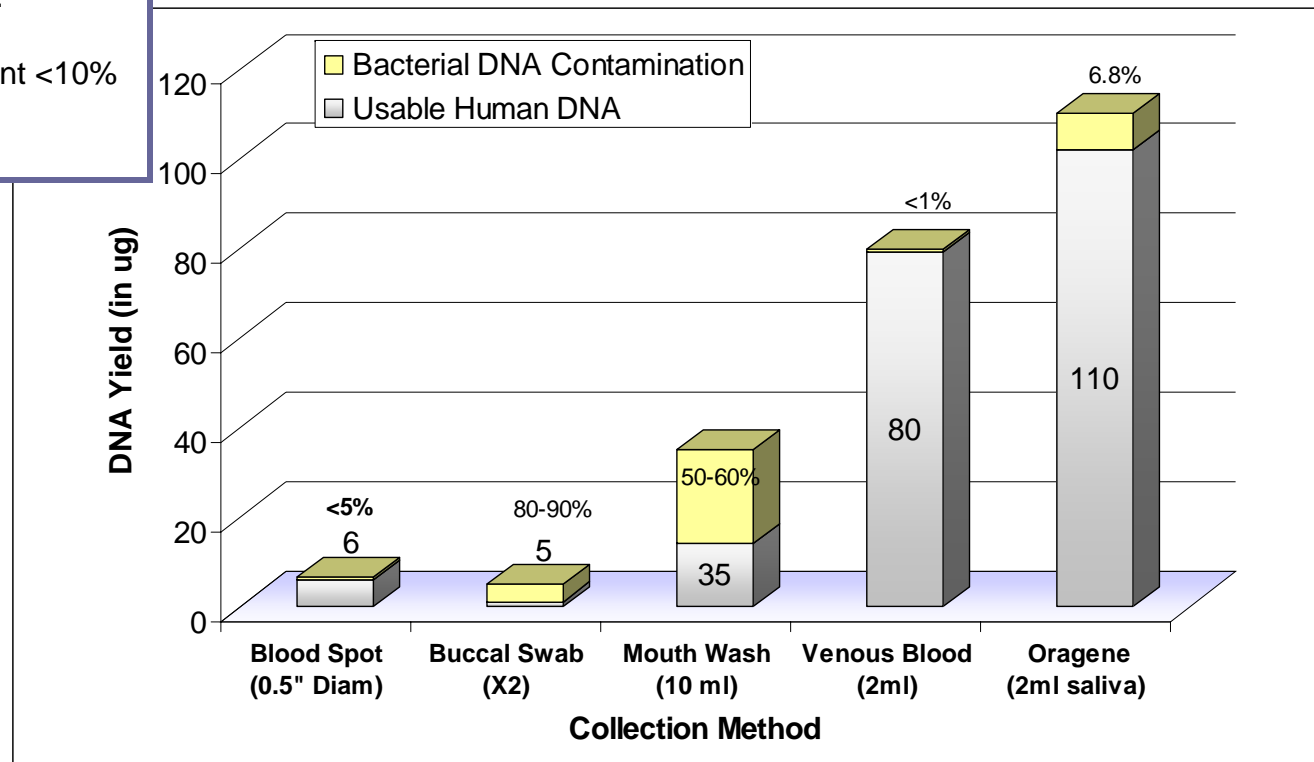




Sample Collection: DNA Yield vs. Bacterial DNA content

Key Points

- ❖ Highest DNA yield – Average of 110 µg per 2mL of saliva.
- ❖ Low Bacterial DNA content <10% Does not interfere with genotyping





Downstream Analysis: Affymetrix Genotyping

- In conclusion, saliva DNA that is extracted with DNA Genotek's Oragene technology performs as well as blood when used in the Affymetrix Targeted Genotyping assay*. This is important as the Oragene technology represents a less expensive and less invasive DNA isolation protocol than the usual blood extraction, allowing for the use of this technology in situations where blood extraction is not viable.

Presented at the 11th Annual HUGO Meeting, Helsinki Finland – May 31st to June 5th, 2006.

* 3K, 100K and 500K SNP arrays used.



Downstream Analysis: Illumina Genotyping

Oragene™ kit from DNA Genotek, Canada

- DNA yield from ~4mL > 100 µg
- 12* Infinium 1 and 2 chips
- Average Call Frequency: 0.9927
- Average Reproducibility Frequency: 0.9980
- Concordance with DNA from blood: 0.9999

* First set of 6 Infinium assays carried out at Illumina's R&D Lab in San Diego. 2nd set of 3 carried out at the Broad Institute of MIT by Todd Golub and Stacey Gabriel, 3rd set carried out by Hakon Hakonarson et al. at the Center for Applied Genomics at CHOP.





THE DNA COLLECTION COMPANY



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