

LOT #166 Raw Sample Genotyping (RSG)



RAW SAMPLE GENOTYPING (RSG)

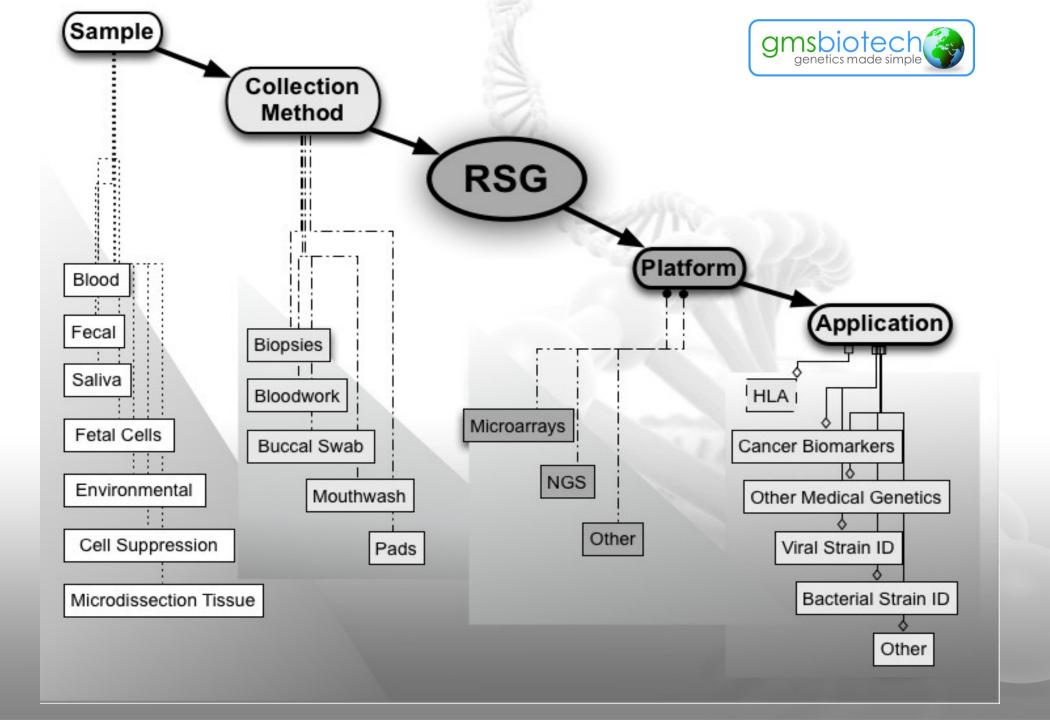


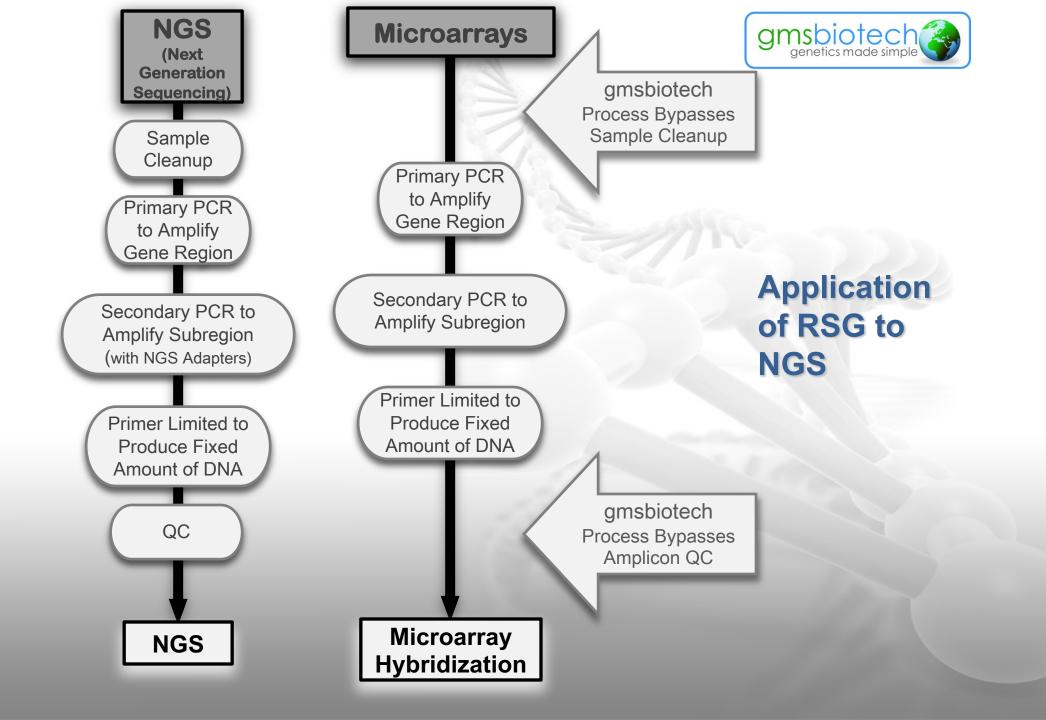
RSG revolutionizes DNA tests in laboratory medicine

- ✓ Bypasses DNA purification of raw samples
- ✓ Automatically obtains consistent measurable amounts of DNA without additional cost and labor.
- ✓ Based on a 2 step variant of ordinary PCR

Validated for a number of input applications:

- ✓ Raw Blood
- ✓ Dried Blood on Guthrie Cards
- √ Saliva
- √ Vaginal/Cervical
- ✓ Umbilical Cord Blood (UCB/Stem Cells)
- ✓ Fecal





Application of RSG to NGS



RSG works on a number of platforms and application areas. **RSG Platform** Microarrays Application NGS HLA Other Cancer Biomarkers Other Medical Genetics Viral Strain ID Bacterial Strain ID Other



Raw Sample Genotyping (RSG) Coupled to gmsbiotech-Microarrays Test System for RSG



Raw Sample Genotyping Summary of Application Feasibility

HLA-Typing & Immunogenetcs

Tissue Typing
Newborn Screening (Blood Spots)
Adult Screening (Saliva, including OraGene)

RSG→ Medical Microbiology

MRSA, Multidrug Resistant STDs Using Nares, Wound Swabs, Vaginal Collection

RSG→ Newborn Screening

Inherited DNA Risk Factors

Newborn Infection

Using Dried Blood Spots on Filter-Paper Cards

Raw Sample Genotyping Summary of Applications Already Successfully Used

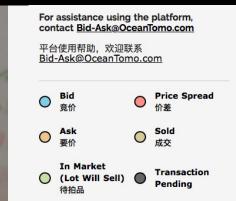
- HLA-GenoTyping
- Microbial Contamination of Cannabis
- Genotyping of Blood Antigens using Saliva





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