**Sierra Molecular Inc. Genelock technology Data Sheet(addendum)**

**Target Sample matrix Applications (Molecular)**

1. Male/Female STD samples: Urethra, Cervix

2. Wound infections: Surgical, Trauma, Burn, Diabetic ulcer, dermatological.

3. Bioterrorism, surface sampling, skin and nasal sampling

4. Forensic samples, blood, saliva, DNA, RNA applications all bodily fluids.

5. Fecal sampling for molecular detection of viruses and bacteria in stool.

6. Viral infections skin, nasal and surface sampling.

7. Multiplex Molecular assays for all of the above

8. Food safety testing process, finished product and production equipment

9. Multiplex samples between two and twenty two targets per sample any combination of above.

**Pathogens tested with device.**

1. HIV qualitative detection PCR, EIA,
2. HIV quantitative detection Viral load Roche PCR
3. HBV qualitative detection PCR
4. HCV qualitative detection PCR
5. HSV quantitative detection
6. Chlamydia Tracomatis, PCR, SDA, TMA amplification
7. Nesseria Gonorrhea PCR, SDA, TMA amplification.
8. E-coli and E-coli O157:H7. PCR and quantitative PCR
9. Shigella
10. Mycoplasma hominis,
11. Ureaplasma urealyticum
12. Mycoplasma genatailum
13. Bacillus species, B subtilis, B pumilus, B cereus, B megatatium, B stearothermophilus (all species were tested for spore recovery and growth.)
14. Multiple non culturable bacterial STD species from cervical and uretheral sites.