Synergy™ 2.0 Modified for Extracting DNA From Oral Fluid

- ✓ Faster
- ✓ Purer
- ✓ Safer
- ✓ Affordable
- ✓ Adaptable

Synergy™ 2.0 was modified to extract DNA from Oral Swine Fluid. The proprietary chemistry in the initial homogenization step binds nearly all the impurities, leaving mostly nucleic acids in solution. Additionally, since there is no harmful guanidine in the sample prep, there is no guanidine carry over to downstream applications.

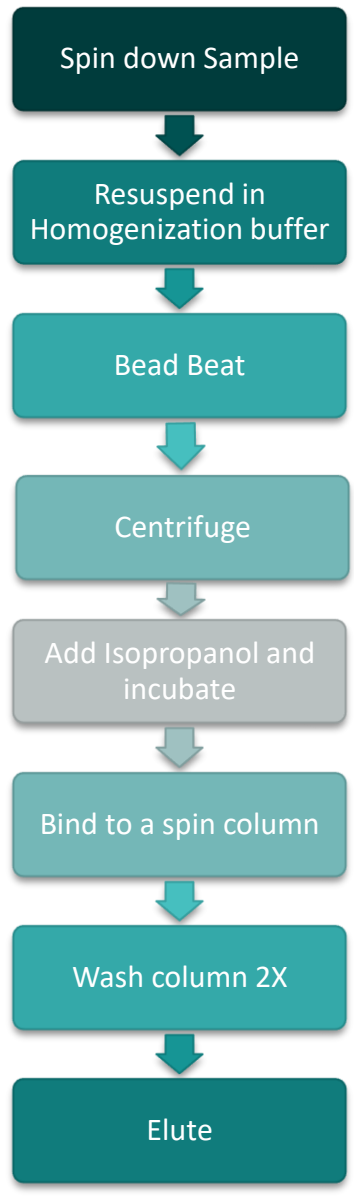

Table: The prepared samples were analyzed with qPCR using 16S rRNA primers and probe with FAM as the fluorophore and TAMRA as the quencher. A reaction volume of 20 µl with 5 µl of sample DNA was used. The means and standard deviations of the threshold cycles are plotted below.

Sample	Average Ct	Ct St dev
Negative- water	30.3501	0.1389
Positive- *E. coli*	11.6551	1.5517
Synergy™ 2.0	8.9228	0.7388
Leading Magnetic Bead Automated Kit	11.7262	0.2077

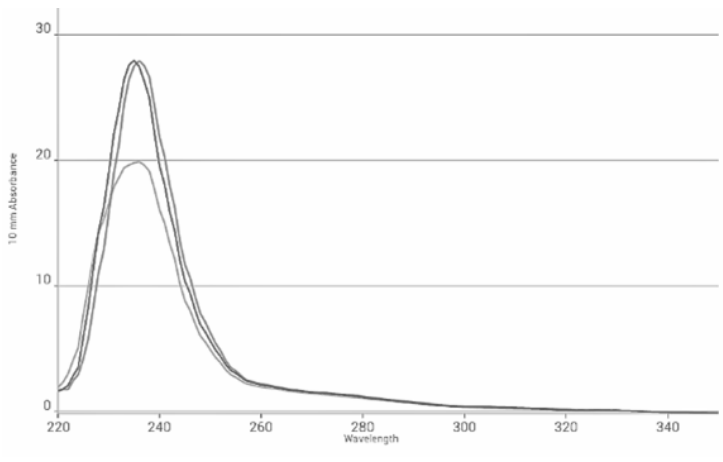

Figure 1: Spectrophotometric results from processing Oral Swine Fluid using a leading automated magnetic bead isolation kit. Blanked with elution buffer.

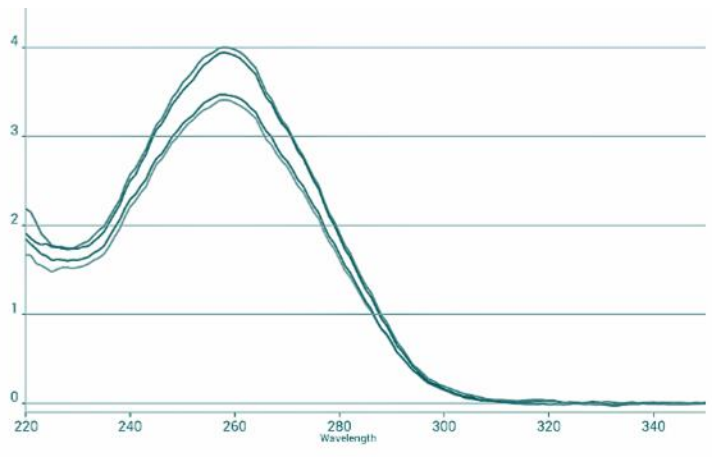

Figure 2: Spectrophotometric results from processing Oral Swine Fluid using a modified Synergy™ 2.0 protocol. Blanked with Molecular Biology grade water.

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