

**Microbe Inotech Laboratories, Inc.**  
**Summary Report of Analysis**  
**[MILB – 3870A]**

Christian Bogner

June 22, 2016

  
[cbogner@gmail.com](mailto:cbogner@gmail.com)

**Description and Chain of Custody Record Information:**

- Monday, June 13, 2016, 3:32PM: Received by USPS one (1) urine sample and one (1) sample of pre-natal vitamins for glyphosate testing by ELISA assay.
- MiL, Inc. REPORT and Invoice No: MILB-3870A

**Sample Processing**

To detect Glyphosate, an enzyme linked immunosorbent assay (ELISA) was used. The sample along with a glyphosate specific antibody is added to a well coated with goat anti-Rabbit antibody and incubated for 30 minutes. Then a glyphosate enzyme conjugate is added. A competition occurs between glyphosate that is present in the sample and the enzyme labeled glyphosate analog for the antibody binding sites in the well. The wells are washed and a color solution is added. The color solution causes a color change in the wells containing the enzyme labeled glyphosate analog. Since the labeled glyphosate was in competition with the unlabeled glyphosate in the sample the color development is inversely proportional to the concentration of glyphosate in the sample. The wells are read at 450nm to determine absorbance.

Results are calculated based on a standard curve. The results are then adjusted based on the extraction procedure and final dilution.

**Results:**

| <b>Sample Name</b>                             | <b>Dilution</b>  | <b>Results in ppb</b> |
|--|------------------|-----------------------|
| <b>Urine Sample</b>                            | <b>1:8</b>       | <b>1.66 ppb</b>       |
| <b>Prenatal Vitamins<br/>from Bayer Sample</b> | <b>Undiluted</b> | <b>**0.390 ppb</b>    |

**Limit of Detection for glyphosate in urine: 0.6 ppb**

**Limit of Detection for glyphosate in vitamin capsules: 0.08**

**Disclaimer:** The MiL, Inc. is not a human clinical diagnostic laboratory and makes no warranty to the fitness of this data for such purposes.