# QUALITY TESTING AT AFFORDABLE PRICES

A Woman-Owned, ISO 170125 Laboratory

# **Antibiotics and Pesticides Report – Sourwood 2022**

Client: Killerbee Honey Date: October 20, 2022

The antibiotic and pesticides groups requested for testing were quantified against gravimetric standards.

#### Validation:

Linearity: each compound was different from a near perfect R<sup>2</sup>=1 to a low of 0.985 across the entire range of concentrations used (0 to 500 ppb).

Limit of quantitation: LOD and LOQ for each compound was calculated using the blank and low sample based on limits listed below.

Results are shown below:

### **Antibiotics**

Analysis	Result	Unit	LIMIT	Method
Tetracyclines (total)	<loq< td=""><td>μg/kg</td><td>30 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	30 μg/kg	LC/MS/MS (QQQ)
Sulfonamides (total)	<loq< td=""><td>μg/kg</td><td>5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	5 μg/kg	LC/MS/MS (QQQ)
Trimethoprim	<loq< td=""><td>μg/kg</td><td>5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	5 μg/kg	LC/MS/MS (QQQ)
Tylosin	<loq< td=""><td>μg/kg</td><td>60 µg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	60 µg/kg	LC/MS/MS (QQQ)
Quinolones (total)	<loq< td=""><td>μg/kg</td><td>2 µg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	2 µg/kg	LC/MS/MS (QQQ)
Chloramphenicol	<loq< td=""><td>μg/kg</td><td>0.3 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	0.3 μg/kg	LC/MS/MS (QQQ)
Streptomycin	<loq< td=""><td>μg/kg</td><td>10 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	10 μg/kg	LC/MS/MS (QQQ)

### **Nitrofuranes metabolites**

Analysis	Result	Unit	LIMIT	Method
AOZ	<loq< td=""><td>μg/kg</td><td>0.5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	0.5 μg/kg	LC/MS/MS (QQQ)
AMOZ	<loq< td=""><td>μg/kg</td><td>0.5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	0.5 μg/kg	LC/MS/MS (QQQ)
AHD	<loq< td=""><td>μg/kg</td><td>0.5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	0.5 μg/kg	LC/MS/MS (QQQ)
SEM	<loq< td=""><td>μg/kg</td><td>0.5 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	0.5 μg/kg	LC/MS/MS (QQQ)

#### Other residues

Analysis	Result	Unit	LIMIT	Method
Coumaphos	<loq< td=""><td>μg/kg</td><td>40 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	40 μg/kg	LC/MS/MS (QQQ)
Fluvalinate	<loq< td=""><td>μg/kg</td><td>20 μg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	20 μg/kg	LC/MS/MS (QQQ)
Amitraz (total)	<loq< td=""><td>μg/kg</td><td>40 µg/kg</td><td>LC/MS/MS (QQQ)</td></loq<>	μg/kg	40 µg/kg	LC/MS/MS (QQQ)

All values are given in ppb (parts per billion).