Agri-Food Assurance Section (Alberta Agriculture & Irrigation) Chemistry Unit – Analytical Testing Services for Apiculture

*Tests listed below are current as of March 31, 2023 and may change periodically without notice.

Test Name	Matrix (sample requirements)	Analytes
Honey Quality Package (typical package for export to Japan)	Honey (minimum 200 g)	 colour (Pfund scale) moisture sugars (direct (natural) reducing sugar content (as invert), fructose, glucose, sucrose) tetracycline antibiotics (chlortetracycline, oxytetracycline, tetracycline) tylosin A + desmycosin (tylosin B)
Honey – Colour	Honey (minimum 100 g)	colour (Pfund scale)
Honey – Moisture	Honey (minimum 100 g)	• moisture
Honey – Sugars	Honey (minimum 100 g)	 sugars (direct (natural) reducing sugar content (as invert), fructose, glucose, sucrose)
Fumagillin in Honey by LC-MS/MS	Honey (minimum 50 g)	fumagillindicyclohexylamine
Tetracycline Antibiotics in Honey by LC-MS/MS	Honey (minimum 50 g)	chlortetracyclineoxytetracyclinetetracycline
Tylosin in Honey by LC-MS/MS	Honey (minimum 50 g)	tylosin Adesmycosin (tylosin B)
Glyphosate in Honey by LC-MS/MS	Honey (minimum 50 g)	• glyphosate
Quinclorac in Honey by LC-MS/MS	Honey (minimum 50 g)	quinclorac
Hydroxymethylfurfural (HMF)	Honey (minimum 50 g)	 hydroxymethylfurfural
Synthetic Acaricides in Honey by LC-MS/MS	Honey (minimum 50 g)	 amitraz degradation products (2,4-dimethylaniline; 2,4-dimethylphenylformamide; N-2,4-dimethylphenyl-N-methylformamidine) coumaphos flumethrin fluvalinate

Classification: Protected A