



| Determinación | Técnica | Analitos | LC |
|-------------------------------|-----------|--|----------------|
| Ácidos Grasos | GC | Butyric Acid, Hexanoic Acid, Octanoic Acid, Decanoic Acid, Undecanoic Acid, Lauric Acid, Tridecanoic Acid, Myristic Acid, Myristoleic Acid, Pentadecanoic Acid, cis-10-pentadecenoic Acid, Palmitic Acid, Palmitoleic Acid, Heptadecanoic Acid, cis-10-Heptadecanoic Acid, Stearic Acid, trans-9-Elaidic Acid, cis-9-Oleic Acid, linolelaidic Acid, linoleic Acid, arachidic Acid, γ -linolenic Acid, eicosenoic Acid, linolenic Acid, heneicosanoic Acid, cis-11,14-Eicosadienoic Acid, Behenic Acid, cis-8,11,14-Eicosatrienoic Acid, Erucic Acid, cis-11,14,17-Eicosatrienoic Acid, cis-5,8,11,14-Eicosatetraenoic Acid, Tricosenoic Acid, cis-13,16-Docosadienoic Acid, Lignoceroic Acid, cis-5,8,11,14,17-Eicosapentaenoic Acid, Nervonic Acid, cis-4,7,10,13,16,19-Docosahexaenoic Acid, cis-4,7,10,13,16,19-Docosahexaenoic Acid | 0,10 % |
| Ácidos Grasos cis-trans | GC/MS | omega3, omega 6 o DHA y omega 9 | 0,10 % |
| Ácidos Orgánicos | HPLC | Ác. Acético, Ác. Ascórbico, Ác. Butírico, Ác. Benzoico, Ác. Cítrico, Ác. Fórmico, Ác. Propiónico, Ác. Salicílico, Ác. Sórbico, Ác. Shikímico, Ác. Valérico, Ác. Iso-Valérico, Ác. Hexanoico, Ac. Gluconico | 10 mg/kg |
| Ácidos Orgánicos | LC/MS/MS | Ac. Gluconico | 0.05 g/L |
| Acrilamida | LC/MS/MS | Acrilamida | 1 μ g/kg |
| Aflatoxinas | LC/MS/MS | Aflatoxin B1, Aflatoxin B2, Aflatoxin G1, Aflatoxin G2 | 1 μ g/kg |
| Alcoholes | GC | 1-Butanol, Ethanol, Hexanol, Isobutanol, Isopropanol, Methanol, Propanol | 1 mg/kg |
| Aldehídos | GC | Formaldehyde, Acetaldehyde, Propanal, Butanal, Furfural | 0.1 mg/kg |
| Aldehídos | GC/MS | Benzaldehyde, Cinnamaldehyde, Decanal, Nonanal, Octanal, Hexanal, 5-Hydroxymethyl-2-furfuraldehyde | 10 μ g/kg |
| Aminas Biogénicas | LC/MS/MS | Histamina, Cadaverina, Putrescina, Hexametilenediamina | 10 μ g/kg |
| Aminas Cuaternarias | LC/MS/MS | BAC, CDDA, PBTC | 5 μ g/kg |
| Aminoácidos | LC/MS/MS | Alanine, D-Arginine, Cysteine, Glutamic acid, Glycine, Histidine, Isoleucine, Leucine, D-Lysine, Methionine, Norleucine, Ornithine, Carnitine Tartrato, Glutamine, Phenylalanine, Proline, Serine, Threonine, Tryptophan Tyrosine, Valine | 50 μ g/kg |
| Aniones | LC/MS/MS | Cloratos, Percloratos, Acetato, Ascorbato, Benzoato, Citriat, Fórmic, Salicilato, Sorbato. | |
| Antibióticos/Aminoglicosidos | XLC/MS/MS | Apramycin, Dihydrostreptomycin, Gentamicyn, Neomicin, Spectinomycin, Streptomycin | 5 μ g/kg |
| Antibióticos/Cefalosporinas | XLC/MS/MS | Cefalexin, Cefalonium, Cefapirin, Cefazolin, Cefoperazone, Cefquinome, Ceftiofur | 5 μ g/kg |
| Antibióticos/Cloranfenicol | LC/MS/MS | Cloranfenicol | 0,3 μ g/kg |
| Antibióticos/Coccidiostaticos | LC/MS/MS | Deconquinate, Halofuginone, Maduramicin, Monensin, Narasin, Robenidine, Senduramicine, Lasalocid, Nicarbazin, Diclazuril | 5 μ g/kg |
| Antibióticos/Griseofulvin | LC/MS/MS | Griseofulvin | 5 μ g/kg |


AGROALIMENTARIO 2018
LISTADO DE DETERMINACIONES

| | | | |
|---------------------------------------|------------------|---|-----------|
| Antibióticos/Ivermectins | XLC/MS/MS | Ivermectine | 5 µg/kg |
| Antibióticos/Macrólidos | XLC/MS/MS | Erytromycin, Flavomycin, Natamicin, Olaquinox, Salinomycin, Spiramycin, Tilimicosin, Tylosin | 5 µg/kg |
| Antibióticos/Metabolitos Nitrofuranos | LC/MS/MS | AOZ, AHD, AMOZ, SCA | 1 µg/kg |
| Antibióticos/Nitrofuranos | HPLC | Furalfadone, Furazolidone, Nitrofurantoine, Nitrofurazone | 5 µg/kg |
| Antibióticos/Penicilinas | XLC/MS/MS | Amoxicillin, Ampicillin, Benzylpenicillin (Penic. G), Cloxacillin, Dicloxacillin, Metampicillin, Nafcillin, Oxacillin, Phenoxymethylpenicillin (Penic. V) | 5 µg/kg |
| Antibióticos/Phenylbutazone | LC/MS/MS | Phenylbutazone | 5µg/kg |
| Antibióticos/Polipeptidos | XLC/MS/MS | Bacitracine, Colistin | 5 µg/kg |
| Antibióticos/Quinolonas | XLC/MS/MS | Ciprofloxacina, Enrofloxacin, Flumequine, Marbofloxacina | 5 µg/kg |
| Antibióticos/Sulfamidas | XLC/MS/MS | Sulfadiazine, Sulfadimethoxine, Sulfadoxine, Sulfamerazine, Sulfamethazine, Sulfamethoxazole, Sulfamethoxypridazine, Sulfamonomethoxine, Sulfapyridine, Sulfaquinoxaline, Sulfathiazole | 5 µg/kg |
| Antibióticos/Tetraciclina | XLC/MS/MS | Chlortetracycline, Doxycycline, Methacycline, Oxitetracycline, Tetracycline | 5 µg/kg |
| Antioxidantes | HPLC | BHA (Butilato Hidroxianisole), BHT (Butilato Hidroxitoluene), PG (Propil Gallate), Clorogénico Ácido | 0,5 mg/l |
| Aromas | GC/MS | 2-Methylisoborneol, 3-Carene, 3-Methyl-1-butanol, Anethol, Benzylbenzoate, Capsaicine, Caumarin, Cinnamaldehyde, Citral, Ethyl lactate, Eucaliptol, Eugenol, Geosmin, Geraniol, Isoeugenol, Isovalerato de etilo, Limonene, Linalool, Mentol, Methylisobutyl Ketone (MIBK), Octen-3-ol, Pinene, Safranal | |
| B-Agonistas | LC/MS/MS | Cimaterol, Clembuterol, Salbutamol | 10 µg/kg |
| Benzimidazoles | LC/MS/MS | Albendazole, Fenbendazole, Flubendazole, Mebendazole, Oxibendazole | 5 µg/kg |
| Benzo (α) pireno | GC/MS/MS | Benzo (α) pireno | 10 µg/kg |
| Benzodiazepinas | LC/MS/MS | Clonazepam, Diazepam, Flunitrazepam, Nitrazepam | 10 µg/kg |
| Colorantes | HPLC | Allura Red (E-129), Azorubine (E-122), Brilliant Black (E-151), Brilliant Blue (E-133), Carminic Acid (E-120), Crocin, Indigo (E-132), Lisamine Green (E-142), Ponceau 4R (E-124), Quinoline Yellow (E-104), Sunset Yellow (E-110), Tartrazine (E-102) | 10 mg/kg |
| Colorantes Residuos | LC/MS/MS | Auramina (Canarian yellow), Carminic Acid, Fast Garnet GBC, Gardenia yellow, Indigo, Leucomalaquite, Malaquite green, Orange II, Orange II (negative), Orange II (positive), Para Red, Quinoline Yellow, Rhodamine B, Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G, Sudan Red 7B, Sudan Red B, Sudan Red G, Sunset Yellow | 100 µg/kg |
| Conservantes | HPLC | Ácido Ascórbico, Ácido Benzoico, Ácido Propiónico, Ácido Sórbico, DHA (Dehidroacetate), EDTA, Ethyl Parabene, Methyl Parabene | 1 mg/kg |


AGROALIMENTARIO 2018
LISTADO DE DETERMINACIONES

| | | | |
|--|------------------|---|-------------|
| Dioxinas y Furanos | GC/MS/MS | 2,3,7,8-TCDD; 1,2,3,7,8-PentaCDD; 1,2,3,4,7,8-HexaCDD; 1,2,3,6,7,8-HexaCDD; 1,2,3,7,8,9-HexaCDD; 1,2,3,4,6,7,8-HeptaCDD; OctaCDD; 2,3,7,8-TetraCDF; 1,2,3,7,8-PentaCDF; 2,3,4,7,8-PentaCDF; 1,2,3,4,7,8-HexaCDF; 1,2,3,6,7,8-HexaCDF; 1,2,3,7,8,9-HexaCDF; 2,3,4,6,7,8-HexaCDF; 1,2,3,4,6,7,8-HeptaCDF; 1,2,3,4,7,8,9-HeptaCDF; OctaCDF | |
| Disolventes residuales | GC | 1,4-dioxane, 1-propanol, 2-propanol, Acetone, Acetonitrile, Benzene, Chloroform, Cyclohexane, Dichloromethane, Diethyl ether, Ethanol, Ethyl acetate, Heptane, Methanol, Hexane, Pyridine, Tetrahydrofuran, Tetrahydrofuran, Toluene, Trichloroethylene | 1 mg/kg |
| Edulcorantes | HPLC | Aspartame, Acesulfame K, Ciclamato, Sacarina, Sorbitol | 1 mg/kg |
| Estimulantes | HPLC | Cafeína, Teobromina | 1 mg/kg |
| Estimulantes | LC/MS/MS | Taurina | |
| Ethanolaminas | LC/MS/MS | Ethanolamine, Diethanolamine, Triethanolamine | 10 µ/kg |
| Fármacos | HPLC | Meclozina, Nicotina | |
| Ftalatos | GC/MS/MS | Dimethyl Phthalate (DMP), Diethyl Phthalate (DEP), Di-isopropyl Phthalate (DPP), Di-isobutyl Phthalate (DIBP), Dibutyl Phthalate (DBP), Benzyl Butyl Phthalate (BBP), Bis (2-ethylhexyl) Adipate (DEHA), Bis (2-Ethylhexyl) Phthalate (DEHP), Di-n-octyl Phthalate (DNOP), Diisononyl Phthalate (DINP), Diisododecyl Phthalate (DIDP) | 0.3 mg/kg |
| Fungicidas | LC/MS/MS | Leucomalaquita, Verde de Malaquita | 5 µg/kg |
| Glicoles | GC/MS | Butylene glycol , Diacetone Alcohol, Diethylene glycol monobutyl ether, Diethyleneglycol , Dimethyl ether, Dipropylene glycol methyl ether, Dipropyleneglycol Dibenzoate, Ethylene glycol , Ethylene glycol butyl ether , Glycerol , Neopentyl Glycol, Propyl glycol, Propylene glycol , Propylene glycol butyl ether , Propylene glycol methyl ether | 1 mg/kg |
| Hidrocarburos Policíclicos Aromáticos (PAHs) | GC/MS/MS | Acenaphthene, Acenaphthylene, Anthracene, Benzo (e) Pyrene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indene (1,2,3-c,d) pyrene, Naphthalene, Phenanthrene, Pyrene | 0.002 mg/kg |
| Hidrocarburos totales | GC | TPHs | |
| Hormonas Corticoesteroides | LC/MS/MS | Betametasona, Dexametasona, Flucionolona, Hidrocortisona, Prednisolona | 10 µg/kg |
| Hormonas Esteroides Anabolizantes | LC/MS/MS | 17-α-Estradiol, 17-β-Estradiol, 17-α-Ethynyl Estradiol, Estriol, Estrona, Progesterona, Testosterona | 5 µg/kg |
| Hormonas Estilbenos | LC/MS/MS | DES, Dienestrol, Estradiol val, Hexestrol, Progesterona, Testosterona | 10 µg/kg |
| Hormonas Tiroestáticos | XLC/MS/MS | Tapazol, Tiuracilo, M-2Tu, P-2Tu, F-2Tu, 6-fenil Tiuracil | 5 µg/kg |
| Hormonas Tiroideas | LC/MS/MS | Triyodotironina (T3), Tiroxina (T4) | 10 µg/kg |
| Metales Pesados | ICP/MS | Consultar | |
| Metolacolor | GC/MS/MS | Metholachlor | 0.010 mg/kg |



AGROALIMENTARIO 2018

LISTADO DE DETERMINACIONES

| | | | |
|--------------------------------|-----------------|---|-----------|
| Micotoxinas | LC/MS/MS | Fumonisin B1, Fumonisin B2, Patulina | 1 µg/kg |
| Micotoxinas | LC/MS/MS | Ocratoxin A, T-2 Toxin, DON (Deoxynivalenol-Vomitoxin) (50 µg/kg) , ZON (Zearalenone) | 1 µg/kg |
| Mineral Oil Hydrocarbons (MOH) | GC | MOSH, MOAH | 0.5 mg/kg |
| Nitrosaminas | LC/MS/MS | N-Nitrosodimethylamine (NDMA), N-Nitrosodiethylamine (NDEA), N-Nitroso-di-n-propylamine (NDPA), N-Nitrosodi-n-buthylamine (NDBA), N-Nitroso-di-n-propylamine (NDPA), N-Nitrosopyrrolidine (NPYR) | 10 µg/kg |
| Off-Flavours | GC/MS | 2,4,6-tricloroanisol, 2,4,6-triclorofenol, 2,3,4,6-tetracloroanisol, 2,3,4,6-tetraclorofenol, Etil fenol, Etil-Carbamato, Etil-Guayacol, Guayacol, n-Propylcarbamato, Pentacloroanisol, Pentaclorofenol, Tribromoanisol, Tribromofenol | 10 µg/kg |
| PCBS no similares a dioxinas | GC/MS/MS | 28,52,101,138,153,180 | |
| PCBs similares a dioxinas | GC/MS/MS | 81,77,126,169,105,114,118,123,156,157,167,189 | |
| PCBs totales | GC/MS/MS | PCBs totales | |
| Pesticidas GC/MS/MS | GC/MS/MS | Acrinatrín, Alaclor, Aldrin, Ametrina, Atrazina, Azinphos Methyl, Benalaxil, Bifenox, Bifenthrin, Bromopropylate, Bromoxynil, Captan, Carbaril, Chlordane-cis, Chlordane-trans, Chlorfenvinfos, Chlorotalonil, Chlorpyrifos, Chlorpyrifos methyl, Cyanazine, Cyhalotrin-lambda, Cypermetrins, Cyproconazole, Deltamethrin, Diazinon, Dichlofluanid, Dichlorvos, Dicofol, Dieldrín, Difenconazole, Dimetoate o Fosfamidón, Endosulfan I, Endosulfán II, Endosulfan-Sulphate, Endrin, Epoxyconazole, Ethion, Fenamifos, Fenarimol, Fenhexamide, Fenitrothion, Fenvalerate + Esfenvalerat, Flusilazol, Folpet, HCH-α, HCH-β, HCH-δ, HCH-gamma (Lindane), Heptachlor, Heptachlorepoide, Hexachlorobenzene, Hexaconazole, Iprodione, , Isodrin, Kreoxim-methyl, L-Cyhalothrin, Malathion, Mepaniprim, Metalaxyl, Methamidophos, Methidathion, , Metribuzine, Methoxychlor, Metolachlor, Nonachlor, op'-DDD, op'-DDE, op'-DDT, Oxadixil, Paraoxon Ethyl, Parathion Ethyl, Parathion Methyl, Penconazole, Permetrins, pp'-DDD, pp'-DDE, pp'-DDT, Phorate, Phosalone, Procymidone, Prometrina, Propiconazole, Pyridaben, Pyrimethanil, Pyperonil Butoxide, Pyrimiphos Methyl, Quinalphos, Simazine, Tebufenpyrad, Terbutylazine, Terbutryn, Trifluralin, Vamidothion, Vinclozolin | 10 µg/kg |


AGROALIMENTARIO 2018
LISTADO DE DETERMINACIONES

| | | | |
|--------------------------------------|------------------|--|--------------------------|
| Pesticidas LC/MS/MS | LC/MS/MS | Abamectina, Acetamiprid, Aldicarb, Aldicarb Sulfone, Aldicarb Sulfoxide, Azinphos methyl, Azoxystrobin, Benalaxyl, Benomil + Carbendazim+ metiltiofanat, Benfuracarb, Boscalid, Carbaryl, Carbendazim, Carbofurano, Chlorantraniliprole, Chloridazon, Chlorprophan, Chlorsulfuron, Clofentezine, Clotianidina, Cymoxanil, Cyproconazole, Cyprodinil, Cyromazin, Deltamethrin, Demeton-S-methyl sulfoxide, Diclofop-methyl, Dietofencarb, Diflubenzuron, Diflufenican, Dimethoate + Omethoate, Dimetomorf, Diniconazole, Epoxyconazol, Ethopropfos, Etoxazole, Famoxadona, Fenamiphos, Fenbutestan, Fenhexamida, Fenobucarb, Fenbuconazole, Fenoxycarb, Fenthion Sulfone, Fenthion Sulfoxide, Flazasulfuron, Flonicamid, Fludioxonil, Flufenoxuron, Fluquinconazole, Flusilazole, Hexaflumuron, Hexythiazox, Imazalil, Imidacloprid, Indoxacarb, Indoxacarb Mix, Iprovalicarb, Isocarbofos, Isoproturon, Kresoxim methyl, Lenacil, Linuron, Lufenuron, Malation+Malaoxon, Mesosulfuron methyl, Metalaxyl, Metoxyfenozide, Metomilo, Monocrotofos, Myclobutanil, Naled-Dibrom, Nitempyram, Ometoato, Oxamyl, Paclobutazol, Paraoxon Methyl, Parathion Methyl, Penconazole, Pendimethalin, Phosmet, Phosphamidon, Pirimicarb, Propargite, Propoxur, Propyzamide, Pymetrozin, Pyraclostrobin, Pyrimethanil, Pyrimiphos methyl, Pyriproxyfen, Quinclorac, Quinoxifen Phosmet, Simazine, Spinosad, Tebuconazole, Tebufenocida, Teflubenzuron, Terbufos, Tetraconazole, Tiabendazol, Tiacloprid, Tiametoxam, Tiodicarb, Tiofanato Metil, Triphenil-Phosphate (TPP), Tralkoxidyn, Triadimenol, Tribenuron, Trichlorfon, Trifloxystrobin, Tolyfluanid | 10 µg/kg |
| Pesticidas: Compuestos Bipiridílicos | LC/MS/MS | Chlormequat, Diquat, Mepiquat, Paraquat | 10 µg/kg |
| Pesticidas: Ditiocarbamatos | GC/MS | Ditiocarbamatos totales | 50µg CS ₂ /kg |
| Pesticidas: Ethepon | GC/MS | Ethepon | 10 µg/kg |
| Pesticidas: Fenoxiacidos | LC/MS/MS | 2,4-D, 2,4-DB, 2,4-DP, MCPA, Mecoprop | 10 µg/kg |
| Pesticidas: Fosetyl Aluminio | LC/MS/MS | Fosetyl Aluminio | 10 µg/kg |
| Pesticidas: Glifosato | XLC/MS/MS | Glifosato, Glufosinato, AMPA | 10 µg/kg |
| Vitaminas hidrosolubles | HPLC | B1, B2 (Riboflavin), B3(Nicotinic Acid), B5 (Panthotenic Acid), B6 (Piridoxine), B9 (Ácido Fólico), B12 (Cyanocobalamine), K2 (MK4) y C (Ácido Ascórbico) | 5 mg/kg |
| Vitaminas hidrosolubles | LC/MS/MS | B1, B2 (Riboflavin), B3(Nicotinic Acid), B5 (Panthotenic Acid), B6 (Piridoxine), B9 (Ácido Fólico), B12 (Cyanocobalamine), K2 (MK4) y C (Ácido Ascórbico) | 0.1 mg/kg |