

Survey Results for Method Needs

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2017 Annual Summer AAFCO Laboratory
Methods and Services Committee

Why and When?

- Backlog of methods needs –when looking at the website
 - Consolidation of our “Notes” & the website
- ID resources
 - LMS Members, AGLabs Listserve, Compendium
- Opportunity for funding
- Look at antibiotics that are no longer in the marketplace
- Prioritize the remaining
 - Survey of state labs
- Summer Annual 2017

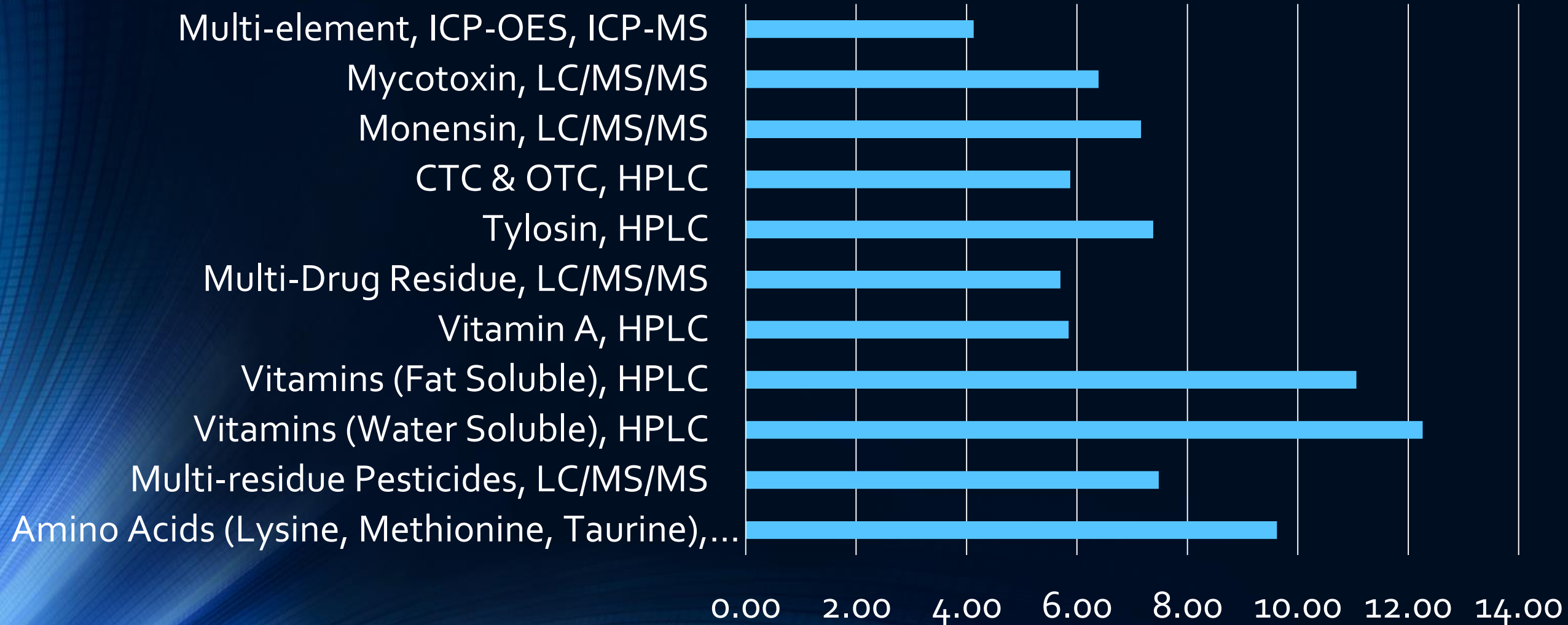
How?

- Via conference call
 - Kristi researched the drugs in marketplace in Colorado
 - Compiled the list and reckoned with the Compendium for allowed uses
 - That's where we started
 - Wanted a survey:
 - Short
 - Concise
 - To the point
 - Not take too long
- Email sent to Aglabs 03/23/17
- Final reminder via email sent to Aglabs 03/29/17

Overview of Survey

- 5 questions
 - Rank the methods
 - Methods not listed
 - Instrumentation you have or will have or will never have
 - Check the drugs you are asked to run
 - State or province
- 36 responses representing 2 Canadian Provinces & 21 states

Question 1: Prioritize the Method for Validation



Vitamins (Water Soluble), HPLC	12.3
Vitamins (Fat Soluble), HPLC	11.1
Amino Acids (Lysine, Methionine, Taurine), UPLC, HPLC	9.6
Multi-residue Pesticides, LC/MS/MS	7.5
Tylosin, HPLC	7.4
Monensin, LC/MS/MS	7.2
Mycotoxin, LC/MS/MS	6.4
CTC & OTC, HPLC	5.9
Vitamin A, HPLC	5.9
Multi-Drug Residue, LC/MS/MS	5.7
Multi-element, ICP-OES, ICP-MS	4.1

Question 2: Please list any missing methods from list

- Crude Fat, Crude Fiber, Acid Hydrolysis Fats, Vitamin A
- Amprolium and Carbadox by HPLC
- Glyphosate in vegetation and Food
- Mono and Di-saccharides, Fructans, Carboadox and Pyrantel Tartrate by LC
- GC-MS/MS Multiple Pesticides
- Multi-Drug Formulation Level

Question 3: Instrumentation in my lab

Have			
Answer Options	Yes	No	Response Count
HPLC	33	0	33
LC-MS	16	11	27
LC-MS/MS	27	2	29
UPLC	21	9	30
ICP-AES	5	23	28
ICP-MS	13	15	28
ICP-OES	30	3	33

Question 3: Instrumentation for my lab

Planning on Purchasing			
Answer Options	Within next 6 months	Within next year	Response Count
HPLC	0	2	2
LC-MS	0	0	0
LC-MS/MS	1	1	2
UPLC	0	1	1
ICP-AES	0	0	0
ICP-MS	0	1	1
ICP-OES	0	2	2

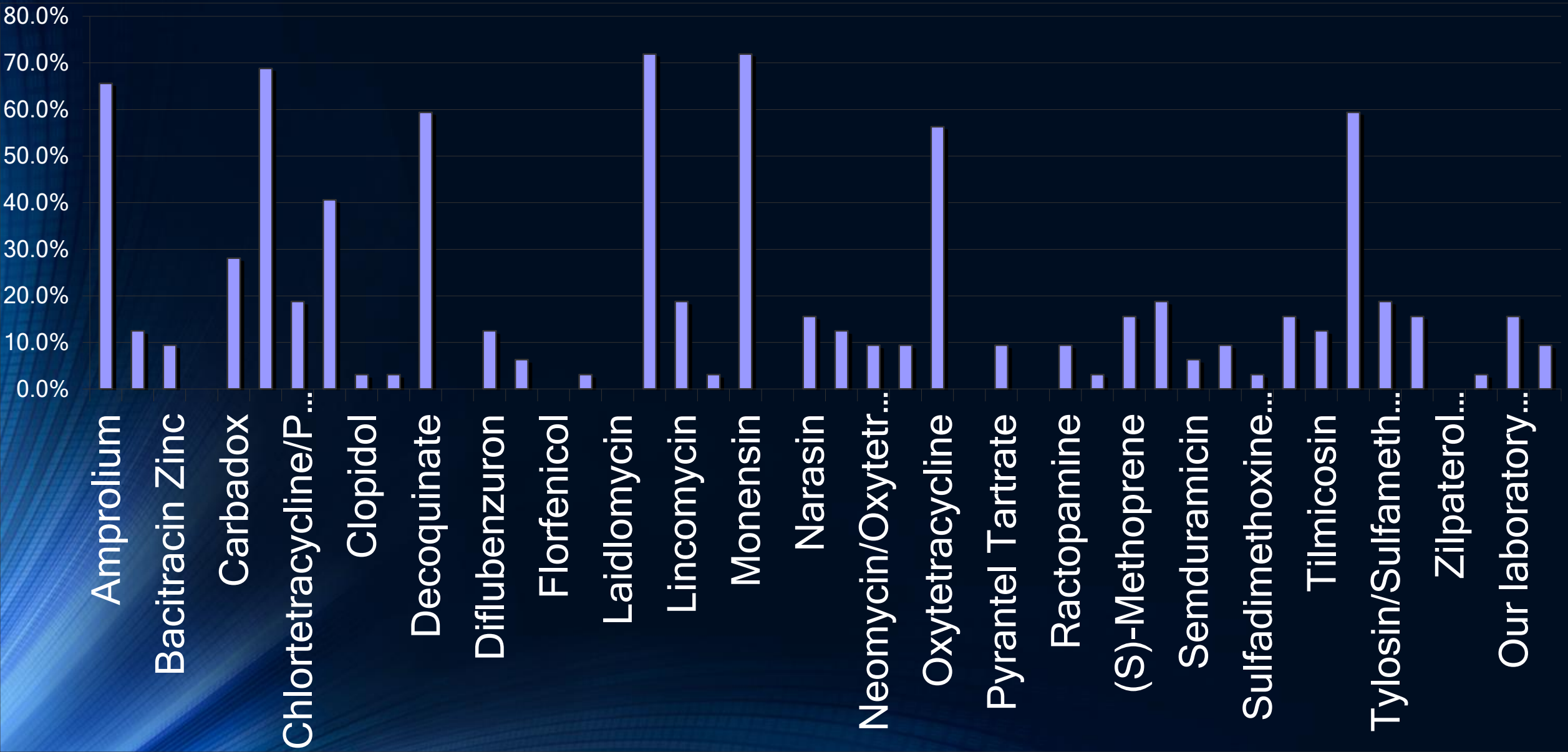
Question 3: Instrumentation for my lab

Do not have			
Answer Options	No plans to purchase	No funding	Response Count
HPLC	2	1	3
LC-MS	7	2	9
LC-MS/MS	3	2	5
UPLC	4	3	7
ICP-AES	14	1	15
ICP-MS	5	5	10
ICP-OES	2	2	4

Question 3: Comments

- AA, IC, GC, GC/MS
- GC, GC-MS, IC
- GCMS, GC MSMS, GC Various detectors, Spectrophotometer
- Combustion Analyzer
- fluorometer
- GC-MS, GC-MS/MS
- GC/MS, AA, Combustion, UV, Microwave
- 2 GC (variety of detectors)
- We also have a postcolumn derivatizer, uv, fluorescence, vis detectors for HPLC/UPLC
- I'm not sure why ICP-AES and ICP-OES are differentiated since they're the same thing?

Question 4: Check each drug you are asked to analyze (from 2016 Compendium)



1	Lasalocid
2	Monensin
3	Chlortetracycline
4	Amprolium
5	Decoquinatate
6	Tylosin
7	Oxytetracycline
8	CTC/Sulfamethazine
9	Carbadox
10	CTC/Penicillin/Sulfamethazine
11	Lincomycin
12	Salinomycin
13	Tylosin/Sulfamethazine
14	Narasin

15	(S)-Methoprene
16	Tiamulin
17	Virginiamycin
18	N/A
19	BMD
20	Diflubenzuron
21	Narasin/Nicarbazin
22	Tilmicosin
23	Bacitracin Zinc
24	Neomycin/OTC
25	Nicarbazin
26	Pyrantel Tartrate
27	Ractopamine
28	Sulfadimethoxine & Ormetoprim 5:1

29	Other (please specify)
30	Fenbendazole
31	Semduramicin
32	Clopidol
33	Cyromazine
34	Hygromycin B
35	Melengestrol Acetate
36	Robenidine Hydrochloride
	Sulfadimethoxine and Ormetoprim
37	5:3

38	Zoalene
39	Bambermycins
40	Diclazuril
41	Florfenicol
42	Laidlomycin
43	Morantel Tartrate
44	Poloxalene
45	Rabon
46	Zilpaterol Hydrochloride

- maduramicin, novobiocin, erythromycin
- Ivermectin, nitrofurazone, sulfamethazine, sulfathiazole, tetracycline HCl
- sufamethazine

Question 5: State/Province

CN	2
CO	2
FL	1
IA	1
KY	2
LA	1
MD	1
MO	2
MN	2
MT	2
NC	1
NE	1
NV	1
NM	1

OH	1
OK	2
OR	2
PA	1
SC	1
SD	2
VA	2
WA	1
21	32

Next Steps

Thanks

- Louise Ogden, LM, RT, MN
- Kristi McCallum, CO
- Participants