

the results are greater than the following action level:

(a) Total of Aflatoxin B1, B2, G1, G2: 20 μg/kg; and(b) Ochratoxin A: 20 μg/kg of substance.

(9) A laboratory test sample and related lot or test batch fail quality assurance testing for residual solvents if the results are greater than the action levels provided in table 1.0.

Residual Solvents	(CAS) Registry Number	Table 1.0 Action Level ppm
Acetone	67-64-1	5,000
Benzene	71-43-2	2
Total Butanes	See ¹	5,000
* n-butane	106-97-8	
* iso-butane	75-28-5	
Chloroform	67-66-3	2
Cyclohexane	110-82-7	3,880
Dichloromethane	75-09-2	600
Ethyl acetate	141-78-6	5,000
Heptane	142-82-5	5,000
Total Hexanes	See ²	290
* n-hexane	110-54-3	
* 2-methylpentane	107-83-5	
* 3-methylpentane	96-14-0	
* 2,2-dimethylbutane	75-83-2	
* 2,3-dimethylbutane	79-29-8	
Isopropanol (2-propanol)	67-63-0	5,000
Methanol	67-56-1	3,000
Total Pentanes	See ³	5,000
* n-pentane	109-66-0	
* iso-pentane	78-78-4	
* neo-pentane	463-82-1	
Propane	74-98-6	5,000
Toluene	108-88-3	890
Total Xylenes	See ⁴	2,170
* 1,2-dimethylbenzene	95-47-6	
* 1,3-dimethylbenzene	108-38-3	
* 1,4-dimethylbenzene	106-42-3	

1 Total butanes should be calculated as sum of n-butane and iso-butane.

2 Total hexanes should be calculated as sum of n-hexane, 2-methylpentane, 3methylpentane, 2,2-dimethylbutane and 2,3-dimethylbutane.

3 Total pentanes should be calculated as sum of n-pentane, iso-pentane, and neo-pentane.

4 Total xylenes should be calculated as sum of 1,2-dimethylbenzene, 1,3-dimethylbenzene, and 1,4-dimethylbenzene.

(10) Heavy metals will be tested at random. A laboratory test sample and related lot or test batch fail quality assurance testing for heavy metals if the results are greater than the action levels provided in table 2.0.

Table 2.0

Heavy Metals	Action Level	Action Level ppm; Other
-	ppm; Inhalable Marijuana	Marijuana Items
	Items	-
Inorganic Arsenic	0.2	1.5
Cadmium	0.2	0.5
Lead	0.5	0.5
Mercury	0.1	3.0

(11) A laboratory test sample and related lot or test batch fail quality assurance testing for pesticides if the results are greater than the action levels provided in table 3.0.

pesticides in the results are greater than the action levels provided in table 5.0.					
Tabl					
Pesticides	(CAS) Registry	Action Level pp	om; Action Level ppm;		
	Number	Dry Flower	Concentrates		
			and Extracts		
Abamectin	71751-41-2	0.5	2.5		
Acequinocyl	57960-19-7	2	10		
Bifenazate	149877-41-8	0.2	1		
Bifenthrin	82657-04-3	0.2	1		
Chlormequat	999-81-5	1	5		
Chloride					
Cyfluthrin	68359-37-5	1	5		
Daminozide	1596-84-5	1	5		
Etoxazole	153233-91-1	0.2	1		
Fenoxycarb	72490-01-8	0.2	1		
Imazalil	35554-44-0	0.2	1		
Imidacloprid	138261-41-3	0.4	2		
Myclobutanil	88671-89-0	0.2	0.6		
Paclobutrazol	76738-62-0	0.4	2		
Pyrethrins ⁺	8003-34-7	1	5		
Spinosad	168316-95-8	0.2	1		
Spirotetramat	203313-25-1	0.2	1		
Trifloxystrobin	141517-21-7	0.2	1		
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† Pyrethrins should be measured as the cumulative residues of pyrethrin 1, cinerin 1, and jasmolin 1 (CAS numbers 121-21-1, 25402-06-6, and 4466-14-2 respectively).

(12) Licensees must adhere to testing requirements for all marijuana and marijuana products intended for sale or transfer to customers.

(a) Usable marijuana, including trim and manicure must be tested for:

(i) pesticides;

(ii) moisture content;

(iii) cannabinoid profile/potency;

(iv) microbiological;

(v) mycotoxin;

(vi) filth and foreign matter; and

(vii) heavy metals (random testing).

(b) A licensee has the option to forgo testing of usable marijuana, including trim and manicure, if that usable marijuana is subject to further processing before sale or transfer to customers.

(c) Marijuana extract and concentrate that is intended for direct sale or transfer to customers must be tested for: (i) pesticides; (ii) cannabinoid profile/potency; (iii) microbiological; (iv) mycotoxin; (v) heavy metals (random testing); and (vi) residual solvents. (d) Marijuana extract and concentrate that is intended for further processing before direct sale or transfer to customers must be tested for: (i) pesticides; (ii) residual solvents; (iii) mycotoxin; and (iv) heavy metals (random testing). (e) Marijuana infused products intended for human consumption, ingestion, or used as suppositories, topicals, and transdermal patches must be tested for: (i) cannabinoid profile/potency; and (ii) microbiological. (f) All marijuana products listed in (e) must use marijuana extract and concentrate that has passed quality assurance testing requirements as set forth in (d). History: <u>16-12-202</u>, <u>16-12-209</u>, MCA; <u>IMP</u>, <u>16-12-202</u>, <u>16-12-209</u>, MCA; <u>NEW</u>, 2019 MAR p. 1868, Eff. 10/19/19; AMD, 2022 MAR p. 58, Eff. 1/15/22; TRANS, from ARM <u>37.107.316</u>, 2023 MAR p. 570, Eff. 7/2/23.

MAR Notices	Effective From	Effective To	History Notes	
<u>42-1066</u>	7/2/2023		History: <u>16-12-202</u> , <u>16-12-209</u> , MCA; <u>IMP</u> , <u>16-12-202</u> , <u>16-12-209</u> , MCA; <u>NEW</u> , 2019 MAR p. 1868, Eff. 10/19/19; <u>AMD</u> , 2022 MAR p. 58, Eff. 1/15/22; <u>TRANS</u> , from ARM <u>37.107.316</u> , 2023 MAR p. 570, Eff. 7/2/23.	

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