

Certificate of Analysis

ICAL ID: 20231207-060 Sample: CA231201-035-134 Lemon Meringue Pie LD Strain: Lemon Meringue Pie LD Category: Concentrates & Extracts Type: Distillate

001/CO-PEST-GC-PREP-

THG LLC Lic.# NA San Diego, CA 92121

Lic.#

Batch#: 12042023 Batch Size Collected: Total Batch Size:

Collected: 12/11/2023; Received: 12/11/2023

Completed: 12/11/2023

Moisture NT		Total THC	Total CBD	Total Cannabinoids	Total Terpenes NT
Water <i>I</i> N	•	ND	ND	80.97%	
Summary	SOP Used	Date Tested			
Batch Cannabinoids Residual Solvents Microbials Mycotoxins Heavy Metals Foreign Matter Pesticides	POT-PREP-001 RS-PREP-001 MICRO-PREP-001 PESTMYCO-LC-PREP-001 HM-PREP-001 FM-PREP-001 CO-PESTMYCO-LC-PREP-	12/08/2023 C C 12/11/2023 P 12/11/2023 P 12/08/2023 P 12/07/2023 P	ass complete complete ass ass ass ass ass	матичность по податичность по податичность по податичность податичност	
Pesticides	001/CO-PEST-GC-PREP-	12/11/2023 P	ass		Scan to see results

Cannabinoid Profile

Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g	Analyte	LOQ (mg/g)	LOD (mg/g)	%	mg/g
THCa	0.3680	0.0924	ND	ND	CBE	0.9109	0.0443	ND	ND
Δ9-THC	0.3680	0.1024	ND	ND	CBGa	0.3965	0.1322	ND	ND
Δ8-THC	0.3680	0.0506	ND	ND	CBG	0.3920	0.1307	ND	ND
THCVa	0.4587	0.1529	ND	ND	CBLa	3.1232	1.0411	ND	ND
THCV	0.3680	0.0423	ND	ND	CBL	0.3680	0.1106	ND	ND
Δ8-THCV	0.8800	0.0174	ND	ND	CBNa	0.3731	0.1244	ND	ND
CBDa	0.3680	0.0951	ND	ND	CBN	0.3680	0.0780	0.52	5.2
CBD	0.3680	0.0815	ND	ND	CBT	0.3680	0.0906	ND	ND
CBDVa	0.3680	0.1063	ND	ND	9R-HHC	0.7752	0.0248	48.79	487.9
CBDV	0.3680	0.0421	ND	ND	9S-HHC	0.7983	0.0420	31.42	314.2
CBDB	0.9086	0.0378	ND	ND	Δ9-THC Acetate	0.8814	0.0263	ND	ND
CBDp	0.9061	0.0321	ND	ND	Δ8-THC Acetate	0.8749	0.0303	ND	ND
CBCa	0.5083	0.1694	ND	ND	HHC-O Acetate	0.8145	0.0500	ND	ND
CBC	0.4549	0.1516	ND	ND	THD	0.8444	0.0298	0.24	2.4
CBCV	0.3680	0.0691	ND	ND	Total THC			ND	ND
					Total CBD			ND	ND
					<u>Total</u>			80.97	809.67

Total THC = THCa * 0.877 + d9-THC; Total CBD = CBDa * 0.877 + CBD. NR = Not Reported, ND = Not Detected. Potency is reported on a dry weight basis. Instrumentation and analysis SOPs used: Cannabinoids: UHPLC-DAD (POT-INST-005), Moisture: Moisture Analyzer (MOISTURE-001). The measurement of uncertainty for total THC concentration is ± 0.009%.

Terpene Profile

LOQ (mg/g) LOD (mg/g) % LOQ (mg/g) LOD (mg/g) % Analyte mg/g Analyte mg/g

NR = Not Reported (no analysis was performed); ND = Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP CO-TERP-INST-003.



Infinite Chemical Analysis Labs 8312 Miramar Mall San Diego, CA (858) 623-2740 www.infiniteCAL.com Lic# C8-0000047-LIC

Josh Swider Lab Director, Managing Partner 12/11/2023

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This product has been tested by Infinite Chemical Analysis Labs, LLC using validated testing methods and a quality control system as required by state law. Sample processing and testing was performed in accordance with CDPHE Colorado Wholesale Food, Industrial Hemp, and Shellfish Regulations (6 CCR 1010-21). Values reported relate only to the product tested. Infinite Chemical Analysis Labs, LLC makes no claims pertaining to the efficacy, safety, or other risks associated with any detected or non-detected levels of any compounds reported herein. This Certificate shall not be reproduced except in full without the written approval of Infinite Chemical Analysis Labs, LLC.





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ICAL ID: 20231207-060 Sample: CA231201-035-134 Lemon Meringue Pie LD Strain: Lemon Meringue Pie LD Category: Concentrates & Extracts Type: Distillate THG LLC Lic. # NA San Diego, CA 92121 Batch#: 12042023 Batch Size Collected: Total Batch Size:

Collected: 12/11/2023; Received: 12/11/2023 Completed: 12/11/2023

Lic.#

Residual Solvent Analysis

Category 1		LOQ	LOD	Limit 5	Status	Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
	μg/g	µg/g	μg/g	µg/g			μg/g	µg/g	μg/g	µg/g			μg/g	µg/g	μg/g	μg/g	
1,2-Dichloro-Ethane	NR	0.509	0.17	1	NT	Acetone	NR	51.246	17.082	5000	NT	n-Hexane	NR	0.2807	0.066	290	NT
Benzene	NR	0.064	0.021	1	NT	Acetonitrile	NR	0.359	0.12	410	NT	Isopropanol	NR	3.8401	1.28	5000	NT
Chloroform	NR	0.108	0.036	1	NT	Butane	NR	4.849	0.971	5000	NT	Methanol	NR	8.917	2.972	3000	NT
Ethylene Oxide	NR	0.579	0.153	1	NT	Ethanol	NR	7.843	2.614	5000	NT	Pentane	NR	4.271	0.962	5000	NT
Methylene-Chloride	NR	0.7288	0.127	1	NT	Ethyl-Acetate	NR	2.288	0.313	5000	NT	Propane	NR	13.302	4.434	5000	NT
Trichloroethene	NR	0.145	0.018	1	NT	Ethyl-Ether	NR	3.548	1.183	5000	NT	Toluene	NR	0.864	0.088	890	NT
						Heptane	NR	2.859	0.687	5000	NT	Xylenes	NR	2.572	0.216	2170	NT

NR = Not Reported (no analysis was performed), ND = Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: HS-GC-MS; samples analyzed according to SOP CO-RS-INST-003.

Heavy Metal Screening

		LOQ	LOD	Limit	Status
	μg/g	μg/g	µg/g	μg/g	
Arsenic	ND	0.009	0.003	0.2	Pass
Cadmium	ND	0.002	0.001	0.2	Pass
Lead	ND	0.004	0.001	0.5	Pass
Mercury	ND	0.014	0.005	0.1	Pass

NR = Not Reported (no analysis was performed), ND = Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: ICP-MS; samples analyzed according to SOP CO-HM-INST-003.

Microbiological Screening

	Limit	Result	Status
	CFU/g	CFU/g	
Salmonella SPP		Not Detected	Pass
STEC		Not Detected	Pass
Total Coliforms	100	NR	NT
Total Aerobic Plate Count	10000	NR	NT
Total Yeast and Mold	1000	NR	NT

 $ND=Not\ Detected.\ Analytical\ instrumentation\ used: qPCR\ and\ microbial\ plating;\ samples\ analyzed\ according\ to\ SOPs\ CO-MICRO-PREP-001\ and\ CO-MICRO-PLATE-001\ detected.$



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THG LLC Lic.# NA San Diego, CA 92121

Lic.#

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Completed: 12/11/2023

Chemical Residue Screening

Category 1		LOQ	LOD	Status	Mycotoxins		LOQ	LOD	Limit	Status
	μg/g	µg/g	µg/g			μg/kg	µg/kg	µg/kg	µg/kg	
Aldicarb	ND	0.030	0.010	Pass	B1	ND	8.98	2.96		Tested
Carbofuran	ND	0.010	0.005	Pass	B2	ND	10.17	3.36		Tested
Chlorfenapyr	ND	0.024	0.008	Pass	G1	ND	5.25	1.73		Tested
Chlorpyrifos	ND	0.075	0.010	Pass	G2	ND	6.26	2.07		Tested
Coumaphos	ND	0.010	0.005	Pass	Ochratoxin A	ND	13.37	4.41	20	Pass
Daminozide	ND	0.075	0.050	Pass	Total Aflatoxins	ND			20	Pass
Dichlorvos	ND	0.050	0.020	Pass						
Dimethoate	ND	0.010	0.005	Pass						
Ethoprophos	ND	0.010	0.005	Pass						
Etofenprox	ND	0.030	0.010	Pass						
Fenoxycarb	ND	0.010	0.005	Pass						
Fipronil	ND	0.010	0.005	Pass						
lmazalil	ND	0.010	0.005	Pass						
Methiocarb	ND	0.010	0.005	Pass						
Mevinphos	ND	0.025	0.010	Pass						
MGK-264	ND	0.016	0.005	Pass						
Paclobutrazol	ND	0.010	0.005	Pass						
Parathion Methyl	ND	0.026	0.009	Pass						
Propoxur	ND	0.010	0.005	Pass						
Spiroxamine	ND	0.030	0.020	Pass						
Thiacloprid	ND	0.010	0.005	Pass						

Category 2		LOQ	LOD	Limit	Status	Category 2		LOQ	LOD	Limit	Status
	μg/g	μg/g	µg/g	μg/g			μg/g	μg/g	μg/g	µg/g	
Abamectin	ND	0.100	0.050	0.25	Pass	Kresoxim Methyl	ND	0.030	0.010	0.15	Pass
Acephate	ND	0.030	0.010	0.05	Pass	Malathion	ND	0.010	0.005	0.01	Pass
Acequinocyl	ND	0.075	0.020	0.075	Pass	Metalaxyl	ND	0.010	0.005	0.01	Pass
Acetamiprid	ND	0.030	0.010	0.05	Pass	Methomyl	ND	0.025	0.010	0.025	Pass
Azoxystrobin	ND	0.010	0.005	0.01	Pass	Myclobutanil	ND	0.010	0.005	0.01	Pass
Bifenazate	ND	0.010	0.005	0.01	Pass	Naled	ND	0.030	0.020	0.03	Pass
Bifenthrin	ND	0.030	0.005	0.03	Pass	Oxamyl	ND	0.030	0.020	1.5	Pass
Boscalid	ND	0.010	0.005	0.01	Pass	Pentachloronitrobenzene	ND	0.016	0.005	0.016	Pass
Carbaryl	ND	0.025	0.010	0.025	Pass	Permethrin	ND	0.030	0.020	0.03	Pass
Chlorantraniliprole	ND	0.030	0.010	0.03	Pass	Phosmet	ND	0.030	0.020	0.03	Pass
Clofentezine	ND	0.010	0.005	0.01	Pass	Piperonyl Butoxide	ND	0.030	0.010	1.25	Pass
Cyfluthrin	ND	0.038	0.013	0.0384	Pass	Prallethrin	ND	0.075	0.030	0.075	Pass
Cypermethrin	ND	0.053	0.018	0.0525	Pass	Propiconazole	ND	0.030	0.010	0.03	Pass
Diazinon	ND	0.030	0.010	0.03	Pass	Pyrethrins	ND	0.045	0.010	0.045	Pass
Dimethomorph	ND	0.030	0.010	0.03	Pass	Pyridaben	ND	0.020	0.010	0.02	Pass
Etoxazole	ND	0.030	0.010	0.03	Pass	Spinetoram	ND	0.010	0.005	0.01	Pass
Fenhexamid	ND	0.045	0.020	0.045	Pass	Spinosad	ND	0.010	0.005	0.01	Pass
Fenpyroximate	ND	0.030	0.010	0.03	Pass	Spiromesifen	ND	0.030	0.010	0.03	Pass
Flonicamid	ND	0.025	0.010	0.025	Pass	Spirotetramat	ND	0.010	0.005	0.01	Pass
Fludioxonil	ND	0.010	0.005	0.01	Pass	Tebuconazole	ND	0.010	0.005	0.01	Pass
Hexythiazox	ND	0.030	0.010	0.03	Pass	Thiamethoxam	ND	0.010	0.005	0.01	Pass
<u>Imidacloprid</u>	ND	0.010	0.005	0.01	Pass	Trifloxystrobin	ND	0.010	0.005	0.01	Pass

Other Analyte(s):

NR = Not Reported (no analysis was performed), ND = Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs CO-PESTMYCO-LC-INST-004 and CO-PEST-GC-INST-004 and CO-PEST-GC-INST-003.



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Lic.#

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Completed: 12/11/2023

Chemical Residue Screening

Analytes	LOQ	LOD	Limit	Status	Analytes		LOQ	LOD	Limit	Status
μg/g Abamectin ND	μg/g 0.100	μg/g 0.050	μg/g 0.250	Pass	Fludioxonil	μg/g ND	μg/g 0.010	μg/g 0.005	μg/g 0.010	Pass
Acephate ND	0.030	0.010	0.050	Pass	Fluopyram	ND	0.005	0.005	0.010	Pass
Acequinocyl ND	0.075	0.020	0.075	Pass	Hexythiazox	ND	0.030	0.010	0.030	Pass
Acetamiprid ND	0.030	0.010	0.050	Pass	Imazalil	ND	0.010	0.005	0.010	Pass
Aldicarb ND	0.030	0.010	0.500	Pass	Imidacloprid	ND	0.010	0.005	0.010	Pass
Allethrin ND	0.030	0.015	0.100	Pass	Iprodione	ND	0.475	0.158	0.500	Pass
Atrazine ND	0.005	0.005	0.005	Pass	Kinoprene	ND	0.221	0.074	1.250	Pass
Azadirachtin ND	0.050	0.030	0.500	Pass	Kresoxim Methyl	ND	0.030	0.010	0.150	Pass
Azoxystrobin ND	0.010	0.005	0.010	Pass	Lambda-Cyhalothrin	ND	0.050	0.030	0.050	Pass
Benzovindiflupyr ND	0.005	0.005	0.010	Pass	Malathion [*]	ND	0.010	0.005	0.010	Pass
Bifenazate ND	0.010	0.005	0.010	Pass	Metalaxyl	ND	0.010	0.005	0.010	Pass
Bifenthrin ND	0.030	0.005	0.030	Pass	Methiocarb	ND	0.010	0.005	0.010	Pass
Boscalid ND	0.010	0.005	0.010	Pass	Methomyl	ND	0.025	0.010	0.025	Pass
Buprofezin ND	0.030	0.015	0.030	Pass	Methoprene	ND	0.050	0.025	0.050	Pass
Captan ND	0.358	0.120	0.700	Pass	Mevinphos	ND	0.025	0.010	0.025	Pass
Carbaryl ND	0.025	0.010	0.025	Pass	MGK-264	ND	0.016	0.005	0.050	Pass
Carbofuran ND	0.010	0.005	0.010	Pass	Myclobutanil	ND	0.010	0.005	0.010	Pass
Chlorantraniliprole ND	0.030	0.010	0.030	Pass	Naled	ND	0.030	0.020	0.030	Pass
Chlordane ND	0.075	0.025	0.025	Pass	Novaluron	ND	0.020	0.010	0.025	Pass
Chlorfenapyr ND	0.024	0.008	1.500	Pass	Oxamyl	ND	0.030	0.020	1.500	Pass
Chlorpyrifos ND	0.075	0.010	0.500	Pass	Paclobutrazol	ND	0.010	0.005	0.010	Pass
Clofentezine ND	0.010 0.010	0.005	0.010	Pass	Parathion Methyl	ND ND	0.026 0.016	0.009	0.026 0.016	Pass
Clothianidin ND Coumaphos ND	0.010	0.005	0.025 0.010	Pass Pass	Pentachloronitrobenzene Permethrin	ND ND	0.016	0.005 0.020	0.016	Pass Pass
Coumaphos ND Cyantraniliprole ND	0.010	0.005	0.010	Pass	Phenothrin	ND	0.030	0.020	0.030	Pass
Cyfluthrin ND	0.010	0.003	0.010	Pass	Phosmet	ND	0.030	0.013	0.030	Pass
Cypermethrin ND	0.053	0.013	0.053	Pass	Piperonyl Butoxide	ND	0.030	0.020	1.250	Pass
Cyprodinil ND	0.010	0.015	0.010	Pass	Pirimicarb	ND	0.010	0.005	0.010	Pass
Daminozide ND	0.075	0.050	0.075	Pass	Prallethrin	ND	0.075	0.030	0.075	Pass
Deltamethrin ND	0.050	0.025	0.050	Pass	Propiconazole	ND	0.030	0.010	0.030	Pass
Diazinon ND	0.030	0.010	0.030	Pass	Propoxur	ND	0.010	0.005	0.010	Pass
Dichlorvos ND	0.050	0.020	0.050	Pass	Pyraclostrobin	ND	0.010	0.005	0.010	Pass
Dimethoate ND	0.010	0.005	0.010	Pass	Pyrethrins	ND	0.045	0.010	0.045	Pass
Dimethomorph ND	0.030	0.010	0.030	Pass	Pýridaben	ND	0.020	0.010	0.020	Pass
Dinotefuran ND	0.050	0.025	0.050	Pass	Pyriproxifen	ND	0.010	0.005	0.010	Pass
Diuron ND	0.010	0.005	0.010	Pass	Resmethrin	ND	0.050	0.025	0.050	Pass
Dodemorph ND	0.020	0.010	0.020	Pass	Spinetoram	ND	0.010	0.005	0.010	Pass
Endosulfan I ND	0.353	0.118	2.500	Pass	Spinosad	ND	0.010	0.005	0.010	Pass
Endosulfan II ND	0.239	0.080	2.500	Pass	Spirodiclofen	ND	0.050	0.025	0.050	Pass
Endosulfan Sulfate ND	0.026	0.009	2.500	Pass	Spiromesifen	ND	0.030	0.010	0.030	Pass
Ethoprophos ND	0.010	0.005	0.010	Pass	Spirotetramat	ND	0.010	0.005	0.010	Pass
Etofenprox ND	0.030	0.010	0.030	Pass	Spiroxamine	ND	0.030	0.020	0.030	Pass
Etoxazole ND Etridiazole ND	0.030 0.044	0.010 0.015	0.030 0.150	Pass	Tebuconazole Tebufenozide	ND ND	0.010 0.010	0.005 0.005	0.010 0.010	Pass
Etridiazole ND Fenhexamid ND	0.044	0.015	0.150	Pass Pass	Teflubenzuron	ND ND	0.010	0.003	0.010	Pass Pass
Fenoxycarb ND	0.045	0.020	0.045	Pass	Tetrachlorvinphos	ND ND	0.020	0.010	0.025	Pass
Fenpyroximate ND	0.010	0.003	0.010	Pass	Tetramethrin	ND	0.010	0.003	0.010	Pass
Fensulfothion ND	0.030	0.010	0.030	Pass	Thiabendazole	ND	0.030	0.025	0.030	Pass
Fenthion ND	0.007	0.003	0.010	Pass	Thiacloprid	ND	0.010	0.005	0.010	Pass
Fenvalerate ND	0.402	0.134	0.402	Pass	Thiamethoxam	ND	0.010	0.005	0.010	Pass
Fipronil ND	0.010	0.005	0.010	Pass	Thiophanate-Methyl	ND	0.020	0.010	0.020	Pass
Flonicamid ND	0.025	0.010	0.025	Pass	Trifloxystrobin	ND	0.010	0.005	0.010	Pass

Mycotoxins		LOQ	LOD	Limit	Status
	μg/kg	μg/kg	μg/kg	µg/kg	
B1	ND	8.98	2.96		Tested
B2	ND	10.17	3.36		Tested
G1	ND	5.25	1.73		Tested

Mycotoxins		LOQ	LOD	Limit	Status
	μg/kg	μg/kg	μg/kg	μg/kg	
G2	NĎ	6.26	2.07		Tested
Ochratoxin A	ND	13.37	4.41	20	Pass
Total Aflatoxins	ND			20	Pass

Other Analyte(s):

NR = Not Reported (no analysis was performed), ND = Not Detected (the concentration is less then the Limit of Detection (LOD)). Analytical instrumentation used: LC-MS-MS & GC-MS-MS; samples analyzed according to SOPs CO-PESTMYCO-LC-INST-004 and CO-PEST-GC-INST-004 and CO-PEST-GC-INST-003.



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Certificate of Analysis Appendix

Residual Solvents - Utah Industrial Hemp

		•			
Analyte	Result (ug/g)	LOD (ug/g)	LOQ (ug/g)	Action Limit(ug/g)	Status
1,2 Dimethoxyethane	ND	5.9917	17.975	100	Pass
1,4 Dioxane	ND	12.8684	38.6052	380	Pass
1-Butanol	16.163	3.1446	9.4337	5,000	Pass
1-Pentanol	ND	9.9794	29.9383	5,000	Pass
1-Propanol	<loq< th=""><th>6.9987</th><th>20.9962</th><th>5,000</th><th>Pass</th></loq<>	6.9987	20.9962	5,000	Pass
2-Butanol	ND	9.5709	28.7127	5,000	Pass
2-Butanone	ND	7.2129	21.6386	5,000	Pass
2-Ethoxyethanol	ND	3.8723	11.6169	160	Pass
2-methylbutane	ND	0.679	2.037	5,000	Pass
2-methylpentane	ND	9.0715	27.2145	290	Pass
3-methylpentane	ND	7.3795	22.1384	290	Pass
2-Propanol (IPA)	ND	11.5286	34.5857	5,000	Pass
Acetone	ND	8.2267	24.6802	5,000	Pass
Acetonitrile	ND	8.3746	25.1238	410	Pass
Benzene	ND	0.3588	1.0763	2	Pass
Butane	ND	9.552	28.6559	5,000	Pass
Cumene	ND	8.32	24.96	70	Pass
Cyclohexane	ND	8.4235	25.2705	3,880	Pass
Dichloromethane	ND	3.9511	11.8533	600	Pass
2,2-dimethylbutane	ND	0.8804	2.6412	290	Pass
2,3-dimethylbutane	ND	0.9493	2.8479	290	Pass
Dimethyl sulfoxide	ND	8.3992	25.1976	5,000	Pass
Ethanol	ND	4.8156	14.4469	5,000	Pass
Ethyl acetate	ND	14.2542	42.7625	5,000	Pass
Ethyl ether	ND	6.8124	20.4372	5,000	Pass
Ethylene glycol	ND	3.4447	10.334	620	Pass
Ethylene Oxide	ND	6.5244	19.5733	50	Pass
Heptane	ND	0.4144	1.2431	5,000	Pass
Hexane	ND	0.5026	1.5078	290	Pass
Isobutane	ND	10.2495	30.7486	5,000	Pass
Isopropyl acetate	ND	4.1274	12.3823	5,000	Pass
Methanol	ND	18.42	55.26	3,000	Pass
N,N-dimethylacetamide	ND	268.955	806.8649	1,090	Pass
N,N-dimethylformamide	ND	2.7382	8.2147	880	Pass
Pentane	ND	0.8382	2.5146	5,000	Pass
Propane	ND	7.9467	23.8402	5,000	Pass
Pyridine	ND	19.55	58.64	100	Pass
Sulfolane	ND	22.886	68.6581	160	Pass
Tetrahydrofuran	ND	6.2156	18.6469	720	Pass
Toluene	ND	0.4061	1.2184	890	Pass
Total Xylenes	ND	10.3738	31.1216	2,170	Pass



Lab Director, CEO

Lemon Meringue Pie LD 12/7/2023