



Report Number: 22-010948/D002.R001

Report Date: 09/28/2022 **ORELAP#:** OR100028

Purchase Order:

Received: 09/14/22 09:14

This is an amended version of report# 22-010948/D002.R000. Reason: Sample re-extracted for potency at lower LOQ.

Customer: Healthy Roots **Product identity:** #0234 500 Pet

Client/Metrc ID:

Laboratory ID: 22-010948-0001

Summary

Potency:	
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Analyte	Result	Limits	Units	Status	CBD-Total per Serving Size 497 m	– – – g/28.5g		
CBC	0.0593		%					
CBD	1.72		%					
CBD-A	0.0269		%		THC-Total per Serving Size 23.9 m	ng/28.5g		
CBDV	0.0146		%		(Reported in milligrams per serving)			
CBG	0.0155		%					
CBT	0.0248		%					
Δ9-THC	0.0839		%					
Analyte per 28.5g	Result	Limits	Units	Status				
CBC per 28.5g	16.9		mg/28.5g					
CBD per 28.5g	490		mg/28.5g					
CBD-A per 28.5g	7.67		mg/28.5g					
CBDV per 28.5g	4.16		mg/28.5g					
CBG per 28.5g	4.42		mg/28.5g					
CBT per 28.5g	7.07		mg/28.5g					
∆9-THC per 28.5g	23.9		mg/28.5g					





Report Number: 22-010948/D002.R001

Report Date: 09/28/2022 **ORELAP#:** OR100028

Purchase Order:

Received: 09/14/22 09:14

Customer: Healthy Roots

Product identity: #0234 500 Pet

Client/Metrc ID:

Sample Date:

Laboratory ID: 22-010948-0001

Evidence of Cooling: No
Temp: 22.3 °C
Relinquished by: Client
Serving Size #1: 28.5 g

Sample Results

Potency	Method: J AOAC 2015 V98	3-6 (mod) ^þ	Units %	Batch: 2208193	Analyze: 9/27/22 10:35:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC	0.0593		%	0.00717	
CBC-A	< LOQ		%	0.00717	
CBC-Total	0.0593		%	0.0135	
CBD	1.72		%	0.00717	
CBD-A	0.0269		%	0.00717	
CBD-Total	1.74		%	0.0135	
CBDV	0.0146		%	0.00717	
CBDV-A	< LOQ		%	0.00717	
CBDV-Total	0.0146		%	0.0134	
CBE	< LOQ		%	0.00717	
CBG	0.0155		%	0.00717	
CBG-A	< LOQ		%	0.00717	
CBG-Total	0.0155		%	0.0134	
CBL	< LOQ		%	0.00717	
CBL-A	< LOQ		%	0.00717	
CBL-Total	< LOQ		%	0.0135	
CBN	< LOQ		%	0.00717	
CBT	0.0248		%	0.00717	
Δ8-THCV	< LOQ		%	0.00717	
$\Delta 10$ -THC	< LOQ		%	0.00717	
$\Delta 8$ -THC	< LOQ		%	0.00717	
Δ9-THC	0.0839		%	0.00717	
exo-THC	< LOQ		%	0.00717	
THC-A	< LOQ		%	0.00717	
THC-Total	0.0839		%	0.0135	
THCV	< LOQ		%	0.00717	
THCV-A	< LOQ		%	0.00717	
THCV-Total	< LOQ		%	0.0134	
Total Cannabinoids	1.95		%		

Potency per 28.5g Method: J AOAC 2015 V98-6 (mod)^b Units mg/se Batch: 2208193 Analyze: 9/27/22 10:35:00 PM
Analyte Result Limits Units LOQ Notes

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Page 2 of 9



Report Number: Report Date:

22-010948/D002.R001 09/28/2022

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Potency per 28.5g	Method: J AOAC 2015 V	/98-6 (mod) ^þ	Units mg/se Bato	h: 2208193	Analyze: 9/27/22 10:35:00 PM
Analyte	Result	Limits	Units	LOQ	Notes
CBC per 28.5g	16.9		mg/28.5g	2.04	
CBC-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBC-Total per 28.5g	16.9		mg/28.5g	3.84	
CBD per 28.5g	490		mg/28.5g	2.04	
CBD-A per 28.5g	7.67		mg/28.5g	2.04	
CBD-Total per 28.5g	497		mg/28.5g	3.84	
CBDV per 28.5g	4.16		mg/28.5g	2.04	
CBDV-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBDV-Total per 28.5g	5.66		mg/28.5g	3.82	
CBE per 28.5g	< LOQ		mg/28.5g	2.04	
CBG per 28.5g	4.42		mg/28.5g	2.04	
CBG-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBG-Total per 28.5g	4.42		mg/28.5g	3.82	
CBL per 28.5g	< LOQ		mg/28.5g	2.04	
CBL-A per 28.5g	< LOQ		mg/28.5g	2.04	
CBL-Total per 28.5g	< LOQ		mg/28.5g	3.84	
CBN per 28.5g	< LOQ		mg/28.5g	2.04	
CBT per 28.5g	7.07		mg/28.5g	2.04	
∆8-THCV per 28.5g	< LOQ		mg/28.5g	2.04	
∆10-THC per 28.5g	< LOQ		mg/28.5g	2.04	
∆8-THC per 28.5g	< LOQ		mg/28.5g	2.04	
∆9-THC per 28.5g	23.9		mg/28.5g	2.04	
exo-THC per 28.5g	< LOQ		mg/28.5g	2.04	
THC-A per 28.5g	< LOQ		mg/28.5g	2.04	
THC-Total per 28.5g	23.9		mg/28.5g	3.84	
THCV per 28.5g	< LOQ		mg/28.5g	2.04	
THCV-A per 28.5g	< LOQ		mg/28.5g	2.04	
THCV-Total per 28.5g	< LOQ		mg/28.5g	3.84	
Total Cannabinoids per 28.	.5g 558		mg/28.5g		





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These test results are representative of the individual sample selected and submitted by the client.

Abbreviations

Limits: Action Levels per OAR-333-007-0400, OAR-333-007-0210, OAR-333-007-0220, CCR title 16-division 42. BCC-section 5723

Limit(s) of Quantitation (LOQ): The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

b = ISO/IEC 17025:2017 accredited method.

Units of Measure

g = g mg/28.5g = Milligram per 28.5g% = Percentage of sample % wt = $\mu g/g$ divided by 10,000

Approved Signatory

Derrick Tanner General Manager





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OR100028

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Hemp / Cannabis Usable / Extract / Finished Products **Chain of Custody Record**

Revision: 4.00 Control#: CF023 Rev 02/24/2021 Eff: 03/04/2021 ORELAPID: OR100028

							A	nalysi	s Reg	ueste	d		-				
Health Rook	CHAIN OF CUSTO Company: Healthy Roots Contact: Liz Merritt Address: 14325 NE Airport W Portland, OR 97230 Email: Healthyrootshemp@g Phone: 503-496-2329 License: AG-L 1052211FP ling (if different): Client Sample Identification	Vay, #1 O gmail.co	om	es – OR 59 compounds	Pesticide Multi-Residue – 379 compounds		Residual Solvents	Moisture & Water Activity	-1	Micro: Yeast and Mold	Micro: E.Coli and Total Coliform	etals		robic Plate Count, Salmonella, phylococcas, Seudomooras	Proje Pro Custom Report t Turnarou	oject Name: Reporting: o State - ☐ ME and time:	TRC or ☐ Other:
Lab	Client Sample Identification O234 SOO PLF	Date	Time	Pesticide	Pesticide	Potency	Residual	Moisture	Terpenes	Micro: Ye	Micro: E.	Heavy Metals	Mycotoxins	Sta	Sample Type †	Weight (Units)	Comments/Metrc ID
	Relinquished By:	Date	. Time			D		0								i	Report in mg/gr and % (percentage)
. [Mervit 9-	13-22	ppe Codes:	JF			eceived				9/1		11:		Evidenc Sample Cash Prelogs	e of cooling: [] \ingood condition [] Check [] of torage:	Lab Use Only:or TClient drop (es [TS-No - Temp (°C):2 Z 3

(5) ; Extract/Concentrate (C) ; Tincture/Topical (T) ; Edible (E) ; Beverage (S)

Samples submitted to Columbia Laboratories with testing requirements constitute on agreement for services in accordance with the current serms of service associated with this COC By signing. Relanguished by P (503) 254-1294 [Fox (503) 254-1452 12423 NE Whitaker Way Portland, OR 97230 Page of vicolumbial aboratories com





Report Number: 22-010948/D002.R001

Report Date: 09/28/2022 ORELAP#: OR100028

Purchase Order:

Received: 09/14/22 09:14

Revision: 1 Document ID: 7148 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality	Control Results
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JAOAC2015 V986		Batch ID: 2208193							
Laboratory Control S	ample								
Analyte	LCS	Result	Spike	Units	%Rec	Limits		Evaluation	Notes
CBDVA	2	0.0330	0.034	%	95.9	80.0 -	120	Acceptable	
CBDV	2	0.0369	0.037	%	101	80.0 -	120	Acceptable	
CBE	2	0.0326	0.035	%	93.4	80.0 -	120	Acceptable	
CBDA	1	0.0314	0.033	%	93.7	90.0 -	110	Acceptable	
CBGA	1	0.0314	0.034	%	93.5	80.0 -	120	Acceptable	
CBG	1	0.0324	0.034	%	94.5	80.0 -	120	Acceptable	
CBD	1	0.0324	0.034	%	94.6	90.0 -	110	Acceptable	
THCV	2	0.0361	0.038	%	96.0	80.0 -	120	Acceptable	
d8THCV	2	0.0358	0.037	%	97.6	80.0 -	120	Acceptable	
THCVA	2	0.0327	0.034	%	97.6	80.0 -	120	Acceptable	
CBN	1	0.0318	0.034	%	94.3	90.0 -	110	Acceptable	
exo-THC	2	0.0332	0.034	%	97.1	80.0 -	120	Acceptable	
d9THC	1	0.0328	0.035	%	94.9	90.0 -	110	Acceptable	
d8THC	1	0.0313	0.033	%	93.4	80.0 -	120	Acceptable	
CBL	2	0.0307	0.033	%	93.5	80.0 -	120	Acceptable	
d10THC	1	0.0299	0.032	%	93.8	80.0 -	120	Acceptable	
CBC	2	0.0354	0.036	%	98.0	80.0 -	120	Acceptable	
THCA	1	0.0311	0.033	%	93.7	90.0 -	110	Acceptable	
CBCA	2	0.0335	0.035	%	95.4	80.0 -	120	Acceptable	
CBLA	2	0.0175	0.019	%	93.7	80.0 -	120	Acceptable	
CBT Method Blank	2	0.0332	0.037	%	89.1	80.0 -	120	Acceptable	

Method Bank						
Analyte	Result	LOQ	Uhits	Limits	Evaluation	Notes
CBDVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBE	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBDA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBGA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBG	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBD	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THCV	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCVA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBN	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
exo-THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d9THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d8THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBL	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
d10THC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBC	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
THCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBCA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBLA	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	
CBT	<loq< td=""><td>0.003</td><td>%</td><td>< 0.003</td><td>Acceptable</td><td></td></loq<>	0.003	%	< 0.003	Acceptable	

Abbreviations

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

Units of Measure: % - Percent





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Purchase Order:

Received: 09/14/22 09:14

Revision: 1 Document ID: 7148 Legacy ID: Worksheet Validated 04/20/2021

Laboratory Quality Control Results

JAOAC2015 V986						atch ID: 2208193		
Sample Duplicate					San	ple ID: 22-010445	50001	
Analyte	Result	Org. Reult	LOQ	Units	RPD	Limits	Evaluation	Notes
CBDVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBDV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBE	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBDA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBGA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBG	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBD	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
THCV	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
d8THCV	0.00460	0.00536	0.003	%	15.1	< 20	Acceptable	
THCVA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBN	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
exo-THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
d9THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
d8THC	2.92	2.90	0.003	%	0.540	< 20	Acceptable	
CBL	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
d10THC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBC	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
THCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBCA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBLA	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	
CBT	<loq< td=""><td><loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<></td></loq<>	<loq< td=""><td>0.003</td><td>%</td><td>NA</td><td>< 20</td><td>Acceptable</td><td></td></loq<>	0.003	%	NA	< 20	Acceptable	

ND - None Detected at or above MRL RPD - Relative Percent Difference LOQ - Limit of Quantitation

Units of Measure:





Report Number: 22-010948/D002.R001

Report Date: 09/28/2022 ORELAP#: OR100028

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Report Date: 09/28/2022 ORELAP#: OR100028

Purchase Order:

09/14/22 09:14 Received:

Explanation of QC Flag Comments:

Code	Explanation
Q	Matrix interferences affecting spike or surrogate recoveries.
Q1	Quality control result biased high. Only non-detect samples reported.
Q2	Quality control outside QC limits. Data considered estimate.
Q3	Sample concentration greater than four times the amount spiked.
Q4	Non-homogenous sample matrix, affecting RPD result and/or % recoveries.
Q5	Spike results above calibration curve.
Q6	Quality control outside QC limits. Data acceptable based on remaining QC.
R	Relative percent difference (RPD) outside control limit.
R1	RPD non-calculable, as sample or duplicate results are less than five times the LOQ.
R2	Sample replicates RPD non-calculable, as only one replicate is within the analytical range.
LOQ1	Quantitation level raised due to low sample volume and/or dilution.
LOQ2	Quantitaion level raised due to matrix interference.
В	Analyte detected in method blank, but not in associated samples.
B1	The sample concentration is greater than 5 times the blank concentration.
B2	The sample concentration is less than 5 times the blank concentration.