

## Drought stress modify cuticle of tender tea leaf and mature leaf for transpiration barrier enhancement through common and distinct modes

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The second leaf											
			D-1		D-8		D-15				
			Average( $\mu\text{g}/\text{cm}^2$ )	SE	Average( $\mu\text{g}/\text{cm}^2$ )	SE	Average( $\mu\text{g}/\text{cm}^2$ )	SE	p (D-8 vs D1)	p (D-15 vs D-1)	p (D-15 vs D-8)
<b>Acids</b>		C16	0.051703991	0.005414175	0.04492746	0.009867689	0.10689775	0.003240289	0.579591648	0.00094127	0.003962595
		C18	0.061709719	0.002238867	0.061434348	0.003578876	0.106808017	0.004672102	0.951120089	0.000959036	0.001523378
		C20	ND	ND	ND	ND	0.030792614	0.002876445	ND	0.000867376	0.000867376
		C22	0.006976454	0.001095768	0.011859825	0.002704231	0.022780266	0.002549337	0.169514069	0.001502834	0.008676464
		C24	0.009172235	0.001090299	0.007547967	0.002169889	0.018296413	0.001023001	0.540206192	0.003647896	0.010985772
		C26	0.027798663	0.003389037	0.016995613	0.006911889	0.034163704	0.002216189	0.233174979	0.191079276	0.077220237
		C28	0.067847125	0.007240988	0.019141843	0.001848627	0.040619389	0.004474323	0.002861653	0.032938277	0.011365287
		C30	0.031701972	0.00258749	0.023881455	0.003817574	0.043466944	0.004705608	0.165175382	0.093604919	0.03190781
		<b>Subtotal</b>	<b>0.25691016</b>	<b>0.01257994</b>	<b>0.185788511</b>	<b>0.025276409</b>	<b>0.403825098</b>	<b>0.005817128</b>	<b>0.065425176</b>	<b>0.000448308</b>	<b>0.001096032</b>
<b>1-Alkanols</b>		C18	0.023585024	0.002125514	0.020842528	0.003052777	0.0318212	0.002487808	0.501871794	0.065562565	0.049422511
		C24	0.008404569	0.000696101	0.04194388	0.005788097	0.023019833	0.001246343	0.004526598	0.000513065	0.033019694
		C26	0.028074537	0.003004404	0.017250353	0.006387787	0.036755004	0.000762405	0.199960008	0.048787433	0.038707972
		C28	0.321202831	0.019584329	0.237203553	0.045021707	0.196583303	0.011140538	0.162271603	0.00522122	0.430571011
		C30	0.440376551	0.007913174	0.771365329	0.023365458	0.309910872	0.0389395	0.000178482	0.030404538	0.000528175
		C32	0.067266921	0.006246782	0.078925891	0.014503543	0.078447017	0.006201784	0.501304258	0.272903026	0.977235373
		C34	0.014930515	0.002651763	0.029336085	0.006441681	0.039854914	0.002225008	0.107480509	0.001971823	0.197595144
		<b>Subtotal</b>	<b>0.903840947</b>	<b>0.025786829</b>	<b>1.196867619</b>	<b>0.086917952</b>	<b>0.716392144</b>	<b>0.050156293</b>	<b>0.03191314</b>	<b>0.029276096</b>	<b>0.008724728</b>
<b>Aldehydes</b>		C26	0.007765739	0.001344007	0.014855627	0.001319795	0.011398804	0.000395916	0.019708747	0.060492764	0.066144735
		C28	ND	ND	ND	ND	0.007873944	0.000718423	ND	0.000393709	0.000393709
		C30	0.002287467	0.000341664	0.006554824	0.001271392	0.00287526	0.000335622	0.03163079	0.287002351	0.04889796
		<b>Subtotal</b>	<b>0.010053206</b>	<b>0.001685052</b>	<b>0.02141045</b>	<b>0.002583537</b>	<b>0.022148008</b>	<b>0.000434873</b>	<b>0.021165782</b>	<b>0.002251808</b>	<b>0.792272868</b>
<b>Alkanes</b>		C17	ND	ND	ND	ND	0.031533189	0.003813761	ND	0.00116758	0.00116758
		C19	ND	ND	ND	ND	0.04305831	0.006483446	ND	0.002668072	0.002668072
		C21	0.026815015	0.002733052	0.037252107	0.003434383	0.117756757	0.007281468	0.076160148	0.000305894	0.000562084
		C25	0.026537965	0.001607373	0.036104004	0.002964082	0.177095275	0.003369396	0.047009175	2.25877E-06	6.11665E-06
		C27	0.014639211	0.002436426	0.014024746	0.001757209	0.13601354	0.004208138	0.847910618	1.52924E-05	1.16093E-05
		C29	0.069156382	0.002130479	0.110444635	0.023594284	0.285583705	0.014381391	0.156319178	0.000118579	0.003172599
		C31	0.009124373	0.000387448	0.009570985	0.000329188	0.107155579	0.003929085	0.429301898	1.56165E-05	1.58182E-05
		C35	0.023967889	0.002459016	0.025483204	0.006461339	0.091253993	0.005172895	0.837236963	0.000300367	0.001358257
		C37	ND	ND	ND	ND	0.053556071	0.004080438	ND	0.00019459	0.00019459
		C39	ND	ND	ND	ND	0.028649165	0.0037192	ND	0.00152833	0.00152833
		<b>Subtotal</b>	<b>0.170240835</b>	<b>0.010699596</b>	<b>0.232879681</b>	<b>0.027647431</b>	<b>1.071655584</b>	<b>0.034055965</b>	<b>0.102153428</b>	<b>1.46037E-05</b>	<b>4.40743E-05</b>



		24-methylenecycloartanol	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Subtotal</b>		<b>0.012977029</b>	<b>0.001070845</b>	<b>0.003940869</b>	<b>0.00040873</b>	<b>0.219510436</b>	<b>0.007149749</b>	<b>0.001399743</b>	<b>8.93476E-06</b>	<b>7.25454E-06</b>
<b>Unidentified</b>			0.096697882	0.007120985	0.395693583	0.017589738	0.24812657	0.003727087	9.47942E-05	4.67375E-05	0.001201081
	<b>Subtotal</b>		<b>0.096697882</b>	<b>0.007120985</b>	<b>0.395693583</b>	<b>0.017589738</b>	<b>0.24812657</b>	<b>0.003727087</b>	<b>9.47942E-05</b>	<b>4.67375E-05</b>	<b>0.001201081</b>
	<b>Total</b>		<b>2.010488452</b>	<b>0.086620485</b>	<b>2.734768732</b>	<b>0.15312798</b>	<b>3.891238138</b>	<b>0.054481803</b>	<b>0.014649765</b>	<b>5.15599E-05</b>	<b>0.002061747</b>

The fifth leaf											
			D-1		D-8		D-15				
			Average( $\mu\text{g}/\text{cm}$ )	SE	Average( $\mu\text{g}/\text{cm}$ )	SE	Average( $\mu\text{g}/\text{cm}$ )	SE	p (D-8 vs D-1)	p (D-15 vs D-1)	p (D-15 vs D-8)
<b>Acids</b>		C16	0.053614986	0.005903244	0.034804899	0.007301476	0.052626871	0.007666428	0.115674171	0.923574728	0.167590134
		C18	0.055048568	0.006265918	0.045836558	0.013001978	0.062810518	0.010210504	0.558016192	0.552350443	0.36257548
		C20	ND	ND	ND	ND	0.037373369	0.001958706	ND	4.44497E-05	4.44497E-05
		C22	ND	ND	ND	ND	0.008398127	0.001690149	ND	0.007657647	0.007657647
		C24	0.00611376	0.000362788	0.007017256	0.00149343	0.004541195	0.000963106	0.588197988	0.201234581	0.235947012
		C26	0.002985804	0.000198467	0.003146595	0.000259444	0.012468213	0.000852779	0.648342738	0.000412428	0.000472498
		C28	0.006463793	0.000821515	0.016386334	0.001784802	0.013111772	0.001643446	0.007230199	0.022391533	0.24844824
		C30	ND	ND	0.03910054	0.003399741	0.025242404	0.001208868	0.000326307	3.10837E-05	0.018449122
	<b>Subtotal</b>		<b>0.124226912</b>	<b>0.01213331</b>	<b>0.146292182</b>	<b>0.025698354</b>	<b>0.216572468</b>	<b>0.020462812</b>	<b>0.480846103</b>	<b>0.017814563</b>	<b>0.099152312</b>
<b>1-Alkanols</b>		C18	0.020257389	0.00465226	0.025170349	0.007599221	0.022523496	0.003036005	0.610720672	0.704221404	0.762560125
		C24	0.014351331	0.001648277	0.02020756	0.003139698	0.056089263	0.03448359	0.173985691	0.293240787	0.358615324
		C26	0.005998025	0.001215098	0.002139732	0.000637824	0.015117326	0.002609803	0.048243443	0.033931345	0.008458413
		C28	0.021206787	0.005033873	0.043664496	0.003867601	0.036073435	0.006216777	0.024062884	0.136637149	0.358392894
		C30	ND	ND	ND	ND	ND	ND	ND	ND	ND
		C32	0.081534841	0.013338789	0.105915028	0.008198972	0.080522867	0.003575271	0.194432274	0.945101202	0.046923268
		C34	ND	ND	ND	ND	ND	ND	ND	ND	ND
	<b>Subtotal</b>		<b>0.143348373</b>	<b>0.021450246</b>	<b>0.197097166</b>	<b>0.004814927</b>	<b>0.210326388</b>	<b>0.028929166</b>	<b>0.070832989</b>	<b>0.136435817</b>	<b>0.675296903</b>
<b>Aldehydes</b>		C26	0.00631801	0.000223522	0.008761163	0.001894388	0.007423927	0.001438528	0.269485766	0.489761644	0.604004585
		C28	0.004497763	0.000305692	0.004995349	0.000102331	0.003681158	0.000763565	0.197572625	0.3769808	0.163227764
		C30	0.015232574	0.002457038	0.01798273	0.001401328	0.008603024	0.000943993	0.385966782	0.065447901	0.00515227
	<b>Subtotal</b>		<b>0.026048346</b>	<b>0.002254222</b>	<b>0.031739242</b>	<b>0.002916473</b>	<b>0.01970811</b>	<b>0.003094641</b>	<b>0.197495777</b>	<b>0.173061036</b>	<b>0.047379672</b>
<b>Alkanes</b>		C17	ND	ND	ND	ND	0.018621144	0.003301551	ND	0.004864667	0.004864667
		C19	ND	ND	ND	ND	0.034228107	0.003925297	ND	0.000952709	0.000952709

		C21	0.03155043	0.001312267	0.03327211	0.005287769	0.087835045	0.003394007	0.767796894	0.000101965	0.000967962
		C25	0.029973189	0.001271147	0.031668191	0.002317966	0.125660718	0.006890988	0.556307296	0.000166552	0.000206482
		C27	0.018780368	0.000883492	0.017912453	0.000560907	0.104071165	0.004827944	0.453533165	6.43686E-05	5.94964E-05
		C29	0.037598229	0.003274145	0.055597952	0.009384055	0.172599954	0.011082535	0.144371111	0.000306981	0.001288624
		C31	0.012349861	0.000695295	0.019404176	0.008252323	0.074327291	0.007046581	0.442314051	0.000939009	0.007173813
		C35	0.02099458	0.00281011	0.02459069	0.001832231	0.073338075	0.004756282	0.344101928	0.000692242	0.000667717
		C37	ND	ND	ND	ND	0.04643036	0.004579479	ND	0.000532787	0.000532787
		C39	ND	ND	ND	ND	0.024072547	0.001808213	ND	0.000184035	0.000184035
		<b>Subtotal</b>	<b>0.151246656</b>	<b>0.009711451</b>	<b>0.182445572</b>	<b>0.01901734</b>	<b>0.761184405</b>	<b>0.047718736</b>	<b>0.217794171</b>	<b>0.000233766</b>	<b>0.000353623</b>
<b>1-Alkanol sesters</b>		C22	0.038907483	0.001971861	0.026303277	0.002382392	0.054260514	0.006663471	0.015152652	0.091692135	0.016808358
<b>Glycol esters</b>		C18	0.031460622	0.008440655	0.043084799	0.010966991	0.055296874	0.012725595	0.448206672	0.193558898	0.507523837
		C19	0.036853964	0.006348706	0.040076405	0.007848012	0.132834752	0.005070123	0.76552841	0.000293897	0.000577994
		C21	0.021539286	0.004252685	0.019380037	0.004310131	0.023140535	0.004134502	0.73940088	0.800539739	0.563109305
<b>Benzyl esters</b>		C25	ND	ND	ND	ND	ND	ND	ND	ND	ND
		C27	ND	ND	ND	ND	ND	ND	ND	ND	ND
		C29	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Phenethyl esters</b>		C28	ND	ND	ND	ND	ND	ND	ND	ND	ND
<b>Phthalate esters</b>		C16	0.005079203	0.000676348	0.007636508	0.001165965	0.008794845	0.001220949	0.130659368	0.056268178	0.530342016
		C16	0.019143939	0.000235022	0.014710678	0.00283488	0.010536967	0.002450973	0.194122309	0.024995126	0.327803746
		C24	0.038829276	0.002285654	0.028465393	0.012863705	0.126192716	0.000812423	0.472033544	3.54801E-06	0.00162275
		C24	0.032201418	0.001591422	0.026404948	0.003054389	0.026059841	0.006094457	0.167662181	0.384752233	0.96205205
		<b>Subtotal</b>	<b>0.224015192</b>	<b>0.020480234</b>	<b>0.206062044</b>	<b>0.015899074</b>	<b>0.437117045</b>	<b>0.033704248</b>	<b>0.526757682</b>	<b>0.005679489</b>	<b>0.003441469</b>
<b>Glycols</b>		C16	0.182569197	0.013922075	0.119741781	0.014378932	0.136355455	0.023267687	0.034877816	0.163514239	0.576378431
		C18	0.013740964	0.00218023	0.009283678	0.000837133	0.025422905	0.001480682	0.128960118	0.011399515	0.000688473
		C20	0.019658442	0.003104398	0.027445003	0.002934383	0.022625559	0.002863742	0.142412943	0.521086485	0.305015507
		C22	0.045140195	0.003602856	0.039449694	0.003708329	0.013814789	0.001847284	0.332848313	0.001503139	0.00346731
		C24	ND	ND	ND	ND	0.135317083	0.004072946	ND	4.89505E-06	4.89505E-06
		<b>Subtotal</b>	<b>0.261108798</b>	<b>0.017151755</b>	<b>0.195920155</b>	<b>0.021092151</b>	<b>0.333535792</b>	<b>0.023185461</b>	<b>0.074525646</b>	<b>0.065963404</b>	<b>0.011778041</b>
<b>Tocopherols</b>		γ-Tocopherole	ND	ND	ND	ND	ND	ND	ND	ND	ND
		β-Tocopherole	0.009629117	0.002680511	0.004941127	0.000559712	0.009458363	0.000987901	0.162062109	0.955204273	0.016423089
		<b>Subtotal</b>	<b>0.009629117</b>	<b>0.002680511</b>	<b>0.004941127</b>	<b>0.000559712</b>	<b>0.009458363</b>	<b>0.000987901</b>	<b>0.162062109</b>	<b>0.955204273</b>	<b>0.016423089</b>
<b>Triterpenoids</b>		α-Amyrin	0.029597907	0.005789446	0.02547402	0.001458906	0.023014925	0.002533893	0.527733787	0.356383846	0.447664061
		β-Amyrin	0.511438057	0.054919778	0.01936505	0.002178569	0.399877727	0.033432106	0.00086105	0.157734626	0.000342682
		β-Amyrone	ND	ND	0.106404879	0.015531943	0.053519213	0.004976587	0.002376318	0.000423848	0.031596653
		Lupeol	0.01468671	0.002585584	0.019330554	0.005959334	0.007583102	0.000755502	0.514194526	0.057754213	0.122167333
		Ursolic acid	0.026602901	0.006638694	0.019919969	0.000465815	0.019885171	0.000428166	0.372103859	0.369711053	0.958776245
		Friedelin	0.562646918	0.005029885	0.765187392	0.085090296	0.375529224	0.018595943	0.076308026	0.000628946	0.011042701

		Canophyllol	ND	ND	ND	ND	0.184686899	0.011010266	ND	7.40249E-05	7.40249E-05
		Betulin	0.012266315	0.001292928	0.451139512	0.052978645	0.263175905	0.012168485	0.001160477	3.34136E-05	0.02586789
	<b>Subtotal</b>		<b>1.157238807</b>	<b>0.045563695</b>	<b>1.406821376</b>	<b>0.146944758</b>	<b>1.327272165</b>	<b>0.049053182</b>	<b>0.180062966</b>	<b>0.064000128</b>	<b>0.634664326</b>
<b>Steroids</b>		Campesterol	0.035082644	0.004928747	0.036705122	0.005228402	0.022606288	0.002722012	0.832421573	0.091028979	0.075016997
		Stigmasterol	0.020902733	0.002188985	0.004766319	0.000275274	0.032705376	0.005703167	0.001858873	0.125517181	0.008083586
		β-Sitosterol	ND	ND	ND	ND	0.110983255	0.007848096	ND	0.000145157	0.000145157
		Lanosterol	0.013714633	0.000338978	0.021152077	0.002068654	0.01366026	0.000954594	0.023841649	0.959767509	0.03026211
		24-methylenecycloartanol	0.002605286	0.000191201	0.003311837	0.000992633	0.017005405	0.002021744	0.523092579	0.002088486	0.003698659
	<b>Subtotal</b>		<b>0.072305297</b>	<b>0.002960096</b>	<b>0.065935355</b>	<b>0.007603998</b>	<b>0.196960584</b>	<b>0.017665213</b>	<b>0.487410404</b>	<b>0.00227862</b>	<b>0.00242613</b>
<b>Unidentified</b>			1.34469464	0.034405859	1.444171487	0.121401102	0.847788427	0.02411144	0.474582326	0.00029254	0.008533027
	<b>Subtotal</b>		<b>1.34469464</b>	<b>0.034405859</b>	<b>1.444171487</b>	<b>0.121401102</b>	<b>0.847788427</b>	<b>0.02411144</b>	<b>0.474582326</b>	<b>0.00029254</b>	<b>0.008533027</b>
	<b>Total</b>		<b>3.513862139</b>	<b>0.082507194</b>	<b>3.881425707</b>	<b>0.281313686</b>	<b>4.359923746</b>	<b>0.075575075</b>	<b>0.278197937</b>	<b>0.001639351</b>	<b>0.175790838</b>