

LAMPIRAN 1 Hasil Determinasi Teh


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Nomor : 2208/ITB/ST/2018
 Hal : Determinasi tumbuhan
 18 April 2018

Kepada Yth.
 Ketua
 Sekolah Tinggi Farmasi Bandung
 Jalan Sockarno Hatta No. 754
 Bandung

Menperhatikan surat permintaan Saudara dalam surat No. 1304/WK2-S1/a/2018 tanggal 1 November 2018 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan determinasi oleh staf kami, sampel tumbuhan yang dibawa oleh Sdr. Melendo Eliyanti (NPM: 131716295), adalah :

Divisi	Magnoliophyta
Kelas	Magnoliopsida (Dicots.)
Ordo	Dipsacales
Familia	Thauleae
Nama suku / familia	Thauleae
Nama jenis / species	<i>Cassipourea sphenoloba</i> (L.) Kostar
Sinonim	<i>Thaulea sphenoloba</i> (L.) Kostar
Nama umum	Tes (Inggris), teh (Indonesia)
Buku acuan	- Becker, C.A. & Bakhuizen van den Brink, Jr. H.C., 1961. Flora of Java, Volume I, N.Y.P., Noordhoff - Groningen, the Netherlands, pp. 320. - Schoeni, A.F. & van der Vossen, H.A.M. 2000. <i>Cassipourea sphenoloba</i> (L.) Kostar, In: van der Vossen, H.A.M. & Wees, M. (Eds.), Plant Resources of South-East Asia No. 16 Stimulants, Backhuys Publisher, Liden, pp. 55 - 61. - Cronquist, A. 1981. An Integrated System of Classification of Flowering Plants, Columbia Press, New York, pp. Xiii - Xxiii.

Demikian yang kami sampaikan. Atas perhatian dan kerjasamanya yang diberikan, kami ucapkan terima kasih.

Wakil Dekan Bidang Sumber Daya

 Dr. Irwan
 NIP. 19620107198832001

Tumbuhan:
 Dekan STFH ITB, sebagai laporan.



LAMPIRAN 2 Hasil Analisis SPSS Optimasi Pengikat

Oneway

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
KADAR AIR	F1	3	2.1100	.03606	.02082	2.0204	2.1996	2.08	2.15
	F2	3	2.5767	.24379	.14075	1.9711	3.1823	2.30	2.76
	F3	3	2.0600	.26153	.15100	1.4103	2.7097	1.88	2.36
	Total	9	2.2489	.30526	.10175	2.0142	2.4835	1.88	2.76
SUDUT DIAM	F1	3	36.9600	.36346	.20984	36.0571	37.8629	36.65	37.36
	F2	3	36.7467	.36019	.20795	35.8519	37.6414	36.38	37.10
	F3	3	35.8100	.20224	.11676	35.3076	36.3124	35.58	35.96
	Total	9	36.5056	.59695	.19898	36.0467	36.9644	35.58	37.36
LAJU ALIR	F1	3	5.0467	.06028	.03480	4.8969	5.1964	4.99	5.11
	F2	3	6.2067	.29023	.16756	5.4857	6.9276	5.89	6.46
	F3	3	7.6100	1.42790	.82440	4.0629	11.1571	5.98	8.64
	Total	9	6.2878	1.32943	.44314	5.2659	7.3097	4.99	8.64

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
KADAR AIR	Between Groups	.487	2	.244	5.660	.042
	Within Groups	.258	6	.043		
	Total	.745	8			
SUDUT DIAM	Between Groups	2.245	2	1.123	11.125	.010
	Within Groups	.605	6	.101		

	Total	2.851	8			
LAJU	Between Groups	9.886	2	4.943	6.972	.027
ALIR	Within Groups	4.254	6	.709		
	Total	14.139	8			

Post Hoc Tests

Multiple Comparisons

Dependent Variable		(I)	(J)	Mean	Std.	Sig.	95% Confidence Interval	
		FOR	FOR	Differen	Error		Lower	Upper
		MULA	MULA	ce (I-J)			Bound	Bound
KADAR AIR	LSD	F1	F2	-.46667*	.1694 0	.033	-.8812	-.0522
			F3	.05000	.1694 0	.778	-.3645	.4645
		F2	F1	.46667*	.1694 0	.033	.0522	.8812
			F3	.51667*	.1694 0	.023	.1022	.9312
		F3	F1	-.05000	.1694 0	.778	-.4645	.3645
			F2	-.51667*	.1694 0	.023	-.9312	-.1022
SUDUT DIAM	LSD	F1	F2	.21333	.2593 7	.442	-.4213	.8480
			F3	1.15000 *	.2593 7	.004	.5153	1.7847
		F2	F1	-.21333	.2593 7	.442	-.8480	.4213

		F3		.93667*	.2593 7	.011	.3020	1.5713
		F3	F1	- 1.15000 *	.2593 7	.004	-1.7847	-.5153
		F2	-.93667*	.2593 7	.011	-1.5713	-.3020	
LAJU ALIR	LSD	F1	F2	- 1.16000	.6874 7	.143	-2.8422	.5222
			F3	- 2.56333 *	.6874 7	.010	-4.2455	-.8812
		F2	F1	1.16000	.6874 7	.143	-.5222	2.8422
			F3	- 1.40333	.6874 7	.087	-3.0855	.2788
		F3	F1	2.56333 *	.6874 7	.010	.8812	4.2455
			F2	1.40333	.6874 7	.087	-.2788	3.0855

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

KADAR AIR

	FORMULA	N	Subset for alpha = 0.05	
			1	2
Duncan ^a	F3	3	2.0600	
	F1	3	2.1100	

	F2	3		2.5767
	Sig.		.778	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUDUT DIAM

			Subset for alpha = 0.05	
	FORMULA	N	1	2
Duncan ^a	F3	3	35.8100	
	F2	3		36.7467
	F1	3		36.9600
	Sig.		1.000	.442

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAJU ALIR

			Subset for alpha = 0.05	
	FORMULA	N	1	2
Duncan ^a	F1	3	5.0467	
	F2	3	6.2067	6.2067
	F3	3		7.6100
	Sig.		.143	.087

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 3 Hasil Analisis SPSS Optimasi Pemanis

Oneway

Descriptives

						95% Confidence Interval for Mean			
		N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	Mini mum	Maxi mum
KADAR AIR	F1	3	2.0433	.03055	.01764	1.9674	2.1192	2.01	2.07
	F2	3	2.1867	.06028	.03480	2.0369	2.3364	2.13	2.25
	F3	3	2.0700	.05292	.03055	1.9386	2.2014	2.03	2.13
	Total	9	2.1000	.07874	.02625	2.0395	2.1605	2.01	2.25
SUDUT DIAM	F1	3	34.8500	.46130	.26633	33.7041	35.9959	34.33	35.21
	F2	3	35.3167	.13503	.07796	34.9812	35.6521	35.18	35.45
	F3	3	35.2633	.46145	.26642	34.1170	36.4096	34.93	35.79
	Total	9	35.1433	.39991	.13330	34.8359	35.4507	34.33	35.79
LAJU ALIR	F1	3	9.9100	.20298	.11719	9.4058	10.4142	9.73	10.13
	F2	3	10.1933	.50013	.28875	8.9509	11.4357	9.70	10.70
	F3	3	9.7800	.91929	.53075	7.4963	12.0637	8.73	10.44
	Total	9	9.9611	.56357	.18786	9.5279	10.3943	8.73	10.70

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
KADAR AIR	Between Groups	.035	2	.017	7.100	.026
	Within Groups	.015	6	.002		
	Total	.050	8			
SUDUT DIAM	Between Groups	.391	2	.196	1.323	.334
	Within Groups	.888	6	.148		
	Total	1.279	8			
LAJU ALIR	Between Groups	.268	2	.134	.354	.716
	Within Groups	2.273	6	.379		
	Total	2.541	8			

Post Hoc Tests**Multiple Comparisons**

				Mean			95% Confidence Interval	
Dependent Variable	(I)	(J)	Differen	Std.			Lower	Upper
	FORMULA	FORMULA	ce (I-J)	Error	Sig.		Bound	Bound
KADAR AIR	LSD	F1	F2	-.14333*	.04046	.012	-.2423	-.0443
			F3	-.02667	.04046	.534	-.1257	.0723
	F2	F1	.14333*	.04046	.012	.0443	.2423	
		F3	.11667*	.04046	.028	.0177	.2157	

			F3	F1	.02667	.04046	.534	-.0723	.1257
				F2	-.11667*	.04046	.028	-.2157	-.0177
SUDUT DIAM	LSD	F1		F2	-.46667	.31410	.188	-1.2352	.3019
				F3	-.41333	.31410	.236	-1.1819	.3552
		F2		F1	.46667	.31410	.188	-.3019	1.2352
				F3	.05333	.31410	.871	-.7152	.8219
		F3		F1	.41333	.31410	.236	-.3552	1.1819
				F2	-.05333	.31410	.871	-.8219	.7152
LAJU ALIR	LSD	F1		F2	-.28333	.50253	.593	-1.5130	.9463
				F3	.13000	.50253	.805	-1.0997	1.3597
		F2		F1	.28333	.50253	.593	-.9463	1.5130
				F3	.41333	.50253	.442	-.8163	1.6430
		F3		F1	-.13000	.50253	.805	-1.3597	1.0997
				F2	-.41333	.50253	.442	-1.6430	.8163

*, The mean difference is significant at the 0.05 level.

Homogeneous Subsets

KADAR AIR

		Subset for alpha = 0.05		
	FORMULA	N	1	2
Duncan ^a	F1	3	2.0433	
	F3	3	2.0700	
	F2	3		2.1867
	Sig.		.534	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUDUT DIAM

			Subset for alpha =
			0.05
	FORMULA	N	1
Duncan ^a	F1	3	34.8500
	F3	3	35.2633
	F2	3	35.3167
	Sig.		.201

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAJU ALIR

			Subset for alpha =
			0.05
	FORMULA	N	1
Duncan ^a	F3	3	9.7800
	F1	3	9.9100
	F2	3	10.1933
	Sig.		.456

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 4 Hasil Analisis SPSS Formula Sebelum Penyalutan

Oneway

Descriptives

							95% Confidence Interval for Mean			
				Std.	Std.	Lower	Upper			
N			Mean	Deviation	Error	Bound	Bound	Min	Max	
KADAR AIR	F1 (i)	3	2.7833	.19502	.11260	2.2989	3.2678	2.56	2.92	
	F1 (ii)	3	2.6867	.18610	.10745	2.2244	3.1490	2.49	2.86	
	F1 (iii)	3	2.7700	.06557	.03786	2.6071	2.9329	2.71	2.84	
	Total	9	2.7467	.14595	.04865	2.6345	2.8589	2.49	2.92	
SUDUT DIAM	F1 (i)	3	39.4533	.35698	.20610	38.5666	40.3401	39.12	39.83	
	F1 (ii)	3	39.5267	.49521	.28591	38.2965	40.7568	39.04	40.03	
	F1 (iii)	3	39.5867	.03055	.01764	39.5108	39.6626	39.56	39.62	
	Total	9	39.5222	.31104	.10368	39.2831	39.7613	39.04	40.03	
LAJU ALIR	F1 (i)	3	10.4633	.39311	.22696	9.4868	11.4399	10.17	10.91	
	F1 (ii)	3	10.3267	.41489	.23954	9.2960	11.3573	9.88	10.70	
	F1 (iii)	3	10.2367	1.13808	.65707	7.4095	13.0638	8.99	11.22	
	Total	9	10.3422	.64439	.21480	9.8469	10.8375	8.99	11.22	

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
KADAR	Between Groups	.016	2	.008	.321	.737
AIR	Within Groups	.154	6	.026		
	Total	.170	8			
	Between Groups	.027	2	.013	.107	.900

SUDUT	Within Groups	.747	6	.125		
DIAM	Total	.774	8			
LAJU	Between Groups	.078	2	.039	.072	.931
ALIR	Within Groups	3.244	6	.541		
	Total	3.322	8			

Post Hoc Tests

Multiple Comparisons

				Mean			95% Confidence Interval	
Dependent Variable		(I)	(J)	Differen	Std.		Lower	Upper
		FORMULA	FORMULA	ce (I-J)	Error	Sig.	Bound	Bound
KADAR AIR	LSD	F1 (i)	F1 (ii)	.09667	.13078	.488	-.2233	.4167
			F1 (iii)	.01333	.13078	.922	-.3067	.3333
		F1 (ii)	F1 (i)	-.09667	.13078	.488	-.4167	.2233
			F1 (iii)	-.08333	.13078	.548	-.4033	.2367
		F1 (iii)	F1 (i)	-.01333	.13078	.922	-.3333	.3067
			F1 (ii)	.08333	.13078	.548	-.2367	.4033
SUDUT DIAM	LSD	F1 (i)	F1 (ii)	-.07333	.28814	.808	-.7784	.6317
			F1 (iii)	-.13333	.28814	.660	-.8384	.5717
		F1 (ii)	F1 (i)	.07333	.28814	.808	-.6317	.7784
			F1 (iii)	-.06000	.28814	.842	-.7650	.6450
		F1 (iii)	F1 (i)	.13333	.28814	.660	-.5717	.8384
			F1 (ii)	.06000	.28814	.842	-.6450	.7650
LAJU ALIR	LSD	F1 (i)	F1 (ii)	.13667	.60035	.827	-1.3323	1.6057
			F1 (iii)	.22667	.60035	.719	-1.2423	1.6957
		F1 (ii)	F1 (i)	-.13667	.60035	.827	-1.6057	1.3323
			F1 (iii)	.09000	.60035	.886	-1.3790	1.5590

F1 (iii)	F1 (i)	-.22667	.60035	.719	-1.6957	1.2423
	F1 (ii)	-.09000	.60035	.886	-1.5590	1.3790

Homogeneous Subsets

KADAR AIR

			Subset for alpha =
			0.05
	FORMULA	N	1
Duncan ^a	F1 (ii)	3	2.6867
	F1 (iii)	3	2.7700
	F1 (i)	3	2.7833
	Sig.		.501

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUDUT DIAM

			Subset for alpha =
			0.05
	FORMULA	N	1
Duncan ^a	F1 (i)	3	39.4533
	F1 (ii)	3	39.5267
	F1 (iii)	3	39.5867
	Sig.		.669

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAJU ALIR

			Subset for alpha =
			0.05
	FORMULA	N	1
Duncan ^a	F1 (iii)	3	10.2367
	F1 (ii)	3	10.3267
	F1 (i)	3	10.4633
	Sig.		.727

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 5 Hasil Analisis SPSS Sediaan Pelet

Oneway

Descriptives

						95% Confidence Interval for Mean			
				Std.	Std.	Lower	Upper		
N			Mean	Deviation	Error	Bound	Bound	Min	Max
KADAR	F1 (sebelum salut)	3	2.7467	.04933	.02848	2.6241	2.8692	2.69	2.78
AIR	F1 (salut 20%)	3	1.5633	.12097	.06984	1.2628	1.8638	1.47	1.70
	F1 (salut 15%)	3	1.3067	.12055	.06960	1.0072	1.6061	1.18	1.42
	F1 (salut 10%)	3	1.4033	.03512	.02028	1.3161	1.4906	1.37	1.44
	F1 (tanpa salut)	3	2.4300	.14000	.08083	2.0822	2.7778	2.29	2.57
	Total	15	1.8900	.61137	.15785	1.5514	2.2286	1.18	2.78
SUDUT	F1 (sebelum salut)	3	39.5233	.07024	.04055	39.3489	39.6978	39.45	39.59
DIAM	F1 (salut 20%)	3	38.6467	.46307	.26735	37.4963	39.7970	38.29	39.17
	F1 (salut 15%)	3	38.6233	.04933	.02848	38.5008	38.7459	38.59	38.68
	F1 (salut 10%)	3	38.6867	.46715	.26971	37.5262	39.8471	38.35	39.22
	F1 (tanpa salut)	3	39.0800	.15133	.08737	38.7041	39.4559	38.91	39.20
	Total	15	38.9120	.44282	.11434	38.6668	39.1572	38.29	39.59
LAJU	F1 (sebelum salut)	3	10.3433	.11060	.06386	10.0686	10.6181	10.24	10.46
ALIR	F1 (salut 20%)	3	8.6433	.68661	.39641	6.9377	10.3490	8.06	9.40
	F1 (salut 15%)	3	9.0800	.86816	.50123	6.9234	11.2366	8.35	10.04
	F1 (salut 10%)	3	9.9533	.53780	.31050	8.6174	11.2893	9.45	10.52
	F1 (tanpa salut)	3	9.0233	.17926	.10349	8.5780	9.4686	8.91	9.23
	Total	15	9.4087	.80866	.20879	8.9608	9.8565	8.06	10.52

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
KADAR AIR	Between Groups	5.128	4	1.282	122.249	.000
	Within Groups	.105	10	.010		
	Total	5.233	14			
SUDUT DIAM	Between Groups	1.819	4	.455	4.913	.019
	Within Groups	.926	10	.093		
	Total	2.745	14			
LAJU ALIR	Between Groups	6.038	4	1.509	4.842	.020
	Within Groups	3.117	10	.312		
	Total	9.155	14			

Post Hoc Tests**Multiple Comparisons**

Dependent Variable		(I)	(J)	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
		FORMULA	FORMULA				Lower Bound	Upper Bound
KADAR AIR	LSD	F1 (sebelum salut)	F1 (salut 20%)	1.18333*	.08361	.000	.9970	1.3696
			F1 (salut 15%)	1.44000*	.08361	.000	1.2537	1.6263
			F1 (salut 10%)	1.34333*	.08361	.000	1.1570	1.5296
			F1 (tanpa salut)	.31667*	.08361	.004	.1304	.5030
	F1 (salut 20%)		F1 (sebelum salut)	-1.18333*	.08361	.000	-1.3696	-.9970
			F1 (salut 15%)	.25667*	.08361	.012	.0704	.4430
			F1 (salut 10%)	.16000	.08361	.085	-.0263	.3463

SUDUT DIAM	LSD	F1 (salut 15%)	F1 (tanpa salut)	-.86667*	.08361	.000	-1.0530	-.6804
			F1 (sebelum salut)	-1.44000*	.08361	.000	-1.6263	-1.2537
			F1 (salut 20%)	-.25667*	.08361	.012	-.4430	-.0704
			F1 (salut 10%)	-.09667	.08361	.275	-.2830	.0896
		F1 (salut 10%)	F1 (tanpa salut)	-1.12333*	.08361	.000	-1.3096	-.9370
			F1 (sebelum salut)	-1.34333*	.08361	.000	-1.5296	-1.1570
			F1 (salut 20%)	-.16000	.08361	.085	-.3463	.0263
			F1 (salut 15%)	.09667	.08361	.275	-.0896	.2830
			F1 (tanpa salut)	-1.02667*	.08361	.000	-1.2130	-.8404
		F1 (tanpa salut)	F1 (sebelum salut)	-.31667*	.08361	.004	-.5030	-.1304
			F1 (salut 20%)	.86667*	.08361	.000	.6804	1.0530
			F1 (salut 15%)	1.12333*	.08361	.000	.9370	1.3096
			F1 (salut 10%)	1.02667*	.08361	.000	.8404	1.2130
		F1 (sebelum salut)	F1 (salut 20%)	.87667*	.24844	.005	.3231	1.4302
			F1 (salut 15%)	.90000*	.24844	.005	.3464	1.4536
			F1 (salut 10%)	.83667*	.24844	.007	.2831	1.3902
			F1 (tanpa salut)	.44333	.24844	.105	-.1102	.9969
		F1 (salut 20%)	F1 (sebelum salut)	-.87667*	.24844	.005	-1.4302	-.3231
			F1 (salut 15%)	.02333	.24844	.927	-.5302	.5769
			F1 (salut 10%)	-.04000	.24844	.875	-.5936	.5136
			F1 (tanpa salut)	-.43333	.24844	.112	-.9869	.1202
		F1 (salut 15%)	F1 (sebelum salut)	-.90000*	.24844	.005	-1.4536	-.3464
			F1 (salut 20%)	-.02333	.24844	.927	-.5769	.5302

			F1 (salut 10%)	-.06333	.24844	.804	-.6169	.4902
			F1 (tanpa salut)	-.45667	.24844	.096	-1.0102	.0969
		F1 (salut 10%)	F1 (sebelum salut)	-.83667*	.24844	.007	-1.3902	-.2831
			F1 (salut 20%)	.04000	.24844	.875	-.5136	.5936
			F1 (salut 15%)	.06333	.24844	.804	-.4902	.6169
		F1 (tanpa salut)	F1 (tanpa salut)	-.39333	.24844	.144	-.9469	.1602
			F1 (sebelum salut)	-.44333	.24844	.105	-.9969	.1102
			F1 (salut 20%)	.43333	.24844	.112	-.1202	.9869
			F1 (salut 15%)	.45667	.24844	.096	-.0969	1.0102
			F1 (salut 10%)	.39333	.24844	.144	-.1602	.9469
LAJU ALIR	LSD	F1 (sebelum salut)	F1 (salut 20%)	1.70000*	.45588	.004	.6842	2.7158
			F1 (salut 15%)	1.26333*	.45588	.020	.2476	2.2791
			F1 (salut 10%)	.39000	.45588	.412	-.6258	1.4058
			F1 (tanpa salut)	1.32000*	.45588	.016	.3042	2.3358
		F1 (salut 20%)	F1 (sebelum salut)	-1.70000*	.45588	.004	-2.7158	-.6842
			F1 (salut 15%)	-.43667	.45588	.361	-1.4524	.5791
			F1 (salut 10%)	-1.31000*	.45588	.017	-2.3258	-.2942
			F1 (tanpa salut)	-.38000	.45588	.424	-1.3958	.6358
		F1 (salut 15%)	F1 (sebelum salut)	-1.26333*	.45588	.020	-2.2791	-.2476
			F1 (salut 20%)	.43667	.45588	.361	-.5791	1.4524
			F1 (salut 10%)	-.87333	.45588	.084	-1.8891	.1424
			F1 (tanpa salut)	.05667	.45588	.904	-.9591	1.0724
		F1 (salut 10%)	F1 (sebelum salut)	-.39000	.45588	.412	-1.4058	.6258

F1 (tanpa salut)	F1 (salut 20%)	1.31000*	.45588	.017	.2942	2.3258
	F1 (salut 15%)	.87333	.45588	.084	-.1424	1.8891
	F1 (tanpa salut)	.93000	.45588	.069	-.0858	1.9458
	F1 (sebelum salut)	-1.32000*	.45588	.016	-2.3358	-.3042
	F1 (salut 20%)	.38000	.45588	.424	-.6358	1.3958
	F1 (salut 15%)	-.05667	.45588	.904	-1.0724	.9591
	F1 (salut 10%)	-.93000	.45588	.069	-1.9458	.0858

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

KADAR AIR						
	FORMULA	N	Subset for alpha = 0.05			
			1	2	3	4
Duncan ^a	F1 (salut 15%)	3	1.3067			
	F1 (salut 10%)	3	1.4033	1.4033		
	F1 (salut 20%)	3		1.5633		
	F1 (tanpa salut)	3			2.4300	
	F1 (sebelum salut)	3				2.7467
	Sig.		.275	.085	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

SUDUT DIAM

		Subset for alpha = 0.05		
	FORMULA	N	1	2
Duncan ^a	F1 (salut 15%)	3	38.6233	
	F1 (salut 20%)	3	38.6467	
	F1 (salut 10%)	3	38.6867	
	F1 (tanpa salut)	3	39.0800	39.0800
	F1 (sebelum salut)	3		39.5233
	Sig.		.117	.105

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAJU ALIR

			Subset for alpha = 0.05		
	FORMULA	N	1	2	3
Duncan ^a	F1 (salut 20%)	3	8.6433		
	F1 (tanpa salut)	3	9.0233	9.0233	
	F1 (salut 15%)	3	9.0800	9.0800	
	F1 (salut 10%)	3		9.9533	9.9533
	F1 (sebelum salut)	3			10.3433
	Sig.		.382	.080	.412

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

LAMPIRAN 6 Parameter Penyalutan

Coater	Pan Coating Conventional 9,6 L
Solvent	Aquadest
Solid content (%w/w)	20
Theoretical weigh gain (%)	9
Pellet charge (g)	400
Inlet air temperature (°C)	70
Temperature bed (°C)	40
Spray equipment	Iwata WA-101
Fluid nozzle (mm)	0.8
Air Cap (mm)	2.4
Atomizing air pressure (Bar)	1
Outlet Nozzle air pressure (Bar)	4
Spray rate (g/min)	5
Baffles	4
Pan speed (rpm)	60
Distance of pellets with spray gun (cm)	20
Time for coating (hour)	1-2
Fluid coater (ml)	240

LAMPIRAN 7 Kuesioner Uji Hedonik

Bandung, 2019

Panelis yang terhormat,

1. Terimakasih atas partisipasi anda untuk mengisi kuisisioner yang saya ajukan semua keterangan yang diberikan digunakan untuk kepentingan kelengkapan data dan perbaikan formula pelet instan
2. Pengisian dilakukan dengan memberikan nilai sesuai dengan pendapat anda setelah mencoba minuman teh instan yang disajikan
3. Atas perhatian Bapak/ Ibu/ Saudara-I, saya ucapkan terimakasih

Identitas panelis :

Nama :

Umur :

Alamat :

Tabel yang harus diisi :

No.	Formula	Nilai			Total Nilai
		Aroma	Rasa	Warna	
1	F1 (i)				
2	F1 (ii)				
3	F1 (iii)				
4	F1 (iv)				
5	Pembanding (Teh Sisri)				

Keterangan :

Penilaian Aroma

Agak Suka : 1

Suka : 2

Sangat suka : 3

Penilaian Rasa

Agak Manis : 1

Manis : 2

Sangat Manis : 3

Penilaian Warna

Agak Kuning : 1

Kuning : 2

Sangat Kuning : 3

TTD

LAMPIRAN 8 Penilaian Hasil Uji Hedonik

FORMULA	PENGUJIAN	JUMLAH	SKOR	JUMLAH x SKOR	TOTAL NILAI
F1 (salut 20%)	Rasa	49	3	171	330
	Aroma	41	2	102	
	Warna	35	1	57	
F1 (salut 15%)	Rasa	49	3	147	289
	Aroma	44	2	100	
	Warna	39	1	42	
F1 (salut 10%)	Rasa	53	3	150	295
	Aroma	58	2	98	
	Warna	47	1	47	
F1 (tanpa salut)	RASA	44	3	132	238
	AROMA	39	2	78	
	WARNA	28	1	28	
Produk Pembanding (Teh Sisri)	RASA	85	3	255	507
	AROMA	81	2	162	
	WARNA	90	1	90	

LAMPIRAN 9 Dokumentasi Penelitian

Gambar & Keterangan	Gambar & Keterangan
 Pembuatan ekstrudat dengan alat ekstruder (mesh).	 Seperangkat alat sferoniser.
 Ekstrudat yang dihasilkan.	 Proses sferonisasi dengan pengaturan kecepatan alat.
 Ekstrudat yang dimasukkan ke alat sferoniser untuk pembentukan sferoid.	 Sferoid yang dihasilkan.



Pengukuran kadar air dengan alat *moisture balance*.



Pengukuran sudut diam dengan alas berbentuk lingkaran dan diukur menggunakan jangka sorong.



Ekstraksi teh hijau dengan metode dekokta pada suhu 90-100°C selama 30 menit, kemudian disaring.



Rangkaian alat penyalutan.



Pengisian kuesioner oleh para panelis.



Pengujian formula kepada 30 panelisdengan mencicipi langsung.

LAMPIRAN 10 Data Hasil Evaluasi

Data Optimasi Pengikat

EVALUASI LAJU ALIR					
FORMULASI	t1	t2	t3	Δt	laju Alir (g/s)
1	9.78	9.87	9.68	9.78	5.11
	9.87	9.76	10.16	9.93	5.04
	9.69	10.38	9.97	10.01	4.99
2	7.07	8.3	7.85	7.74	6.46
	8.85	8.66	7.97	8.49	5.89
	7.99	8.3	7.65	7.98	6.27
3	7.99	8.42	8.66	8.36	5.98
	6.42	5.31	6.55	6.09	8.21
	5.44	5.25	6.67	5.79	8.64

EVALUASI SUDUT DIAM				
FORMULA	d (diameter) cm	h (tinggi) cm	r (jari-jari) cm	Θ (sudut) °
1	4.87	1.83	2.44	36.87
	4.91	1.83	2.46	36.65
	4.82	1.84	2.41	37.36
2	4.98	1.86	2.49	36.76
	4.86	1.79	2.43	36.38
	4.84	1.83	2.42	37.10
3	4.91	1.78	2.46	35.89
	4.92	1.76	2.46	35.58
	4.88	1.77	2.44	35.96

EVALUASI KADAR AIR	
FORMULA	KADAR AIR
1	2.08
	2.10
	2.15
2	2.30
	2.76
	2.67
3	1.94
	2.36
	1.88

Data Optimasi Pemanis

EVALUASI LAJU ALIR

FORMULASI	t1	t2	t3	Δt	Laju Alir (g/s)
1	4.98	5.64	4.79	5.14	9.73
	4.64	4.86	5.31	4.94	10.13
	4.46	4.26	6.48	5.07	9.87
2	4.79	4.98	5.70	5.16	9.70
	5.37	4.51	4.86	4.91	10.18
	4.72	4.71	4.59	4.67	10.70
3	4.57	4.71	5.09	4.79	10.44
	5.02	4.70	5.03	4.92	10.17
	6.72	5.54	4.93	5.73	8.73

EVALUASI SUDUT DIAM

FORMULA	d (diameter) cm	h (tinggi) cm	r (jari-jari) cm	θ (sudut) $^{\circ}$
1	4.93	1.73	2.47	35.01
	4.91	1.68	2.46	34.33
	4.96	1.75	2.48	35.21
2	4.88	1.72	2.44	35.18
	4.86	1.73	2.43	35.45
	4.94	1.75	2.47	35.32
3	4.89	1.72	2.45	35.07
	4.80	1.73	2.40	35.79
	4.83	1.69	2.42	34.93

EVALUASI KADAR AIR

FORMULA	KADAR AIR
1	2.05
	2.01
	2.07
2	2.25
	2.13
	2.18
3	2.13
	2.05
	2.03

Data Sebelum dan Setelah Penyalutan

EVALUASI LAJU ALIR (SEBELUM DISALUT)						EVALUASI LAJU ALIR (SETELAH DISALUT)					
FORMULASI	t1	t2	t3	Δt	Laju Alir (g/s)	FORMULASI	t1	t2	t3	Δt	Laju Alir (g/s)
I (i)	5.42	4.67	4.66	4.92	10.17	I (i)	5.38	5.11	5.46	5.32	9.40
							5.11	5.92	6.67	5.90	8.47
	4.92	4.58	5.05	4.85	10.31		6.38	6.17	6.07	6.21	8.06
	4.82	4.6	4.33	4.58	10.91		5.57	4.2	5.17	4.98	10.04
I (ii)	4.6	5.17	4.65	4.81	10.40	I (ii)	6.16	3.78	6.03	5.99	8.35
	4.67	5.11	5.4	5.06	9.88		5.8	5.52	5.62	5.65	8.85
	4.71	4.79	4.52	4.67	10.70		5.01	4.23	4.92	4.75	10.32
	4.4	4.37	4.6	4.46	11.22		6.54	4.6	4.73	5.29	9.45
I (iii)	5.6	5.88	5.2	5.56	8.99	I (iii)	5.32	4.33	5.31	5.05	9.89
	5.14	4.26	4.88	4.76	10.50		5.7	5.25	5.89	5.61	8.91
							5.43	5.58	5.78	5.60	8.93
							5.11	5.84	5.3	5.42	9.23

EVALUASI KADAR AIR (SEBELUM DISALUT)		EVALUASI KADAR AIR (SETELAH DISALUT)	
FORMULA	KADAR AIR (%)	FORMULA	KADAR AIR (%)
I (i)	2.92	I (i)	1.7
	2.56		1.52
	2.87		1.47
I (ii)	2.71	I (ii)	1.18
	2.86		1.32
	2.49		1.42
I (iii)	2.71	I (iii)	1.44
	2.76		1.37
	2.84		1.4
		I (iv)	2.43
			2.57
			2.29

EVALUASI SUDUT DIAM (SEBELUM DISALUT)				EVALUASI SUDUT DIAM (SETELAH DISALUT)			
FORMULA	d (diameter) cm	r (jari-jari) cm	θ (sudut) °	FORMULA	d (diameter) cm	h (tinggi) cm	θ (sudut) °
I (i)	4.79	2.40	39.41	I (i)	4.98	1.72	2.49
	4.89	2.45	39.33		4.97	1.76	2.49
	4.95	2.48	39.12		5.09	1.75	2.55
					5.02	1.74	2.51
I (ii)	4.97	2.40	39.51	I (ii)	5.21	1.81	2.61
	5.05	2.53	40.03		5.11	1.78	2.56
	5.19	2.60	39.04		4.99	1.77	2.59
					5.06	1.74	2.53
I (iii)	5.07	2.54	39.58	I (iii)	5.23	1.81	2.62
	5.14	2.57	39.56		5.08	1.76	2.54
	5.24	2.62	39.62		5.09	1.80	2.52
					5.06	1.70	2.53

LAMPIRAN 11 Certificate of Analysis Sucrose

QCT/FORM/OC-Analyst 2015, Rev 00

PT. Jermayanti Rafidasi
J. Raya Arahm (2011)
Gresik - Gresik
Phone : (031) 612226

Division : QA & QC

Certificate of Analysis

Document No : ZSP004-RKOC/00118
Rev Date : 0
Page : 1 of 1
Date : April 16, 2015

Article Name :	Refined Crystal Sugar		
Type :	R1		
Batch Number :	14APR15-3 ✓		21 Zak.
Best Before Used :	14APR20 ✓		
Chemical name :	Saccharose (C ₁₂ H ₂₂ O ₁₁)		

No.	Parameter	Result	Standard	Remark
1	Pel (°Z ; 20° C)	99.95	99.8 min	ICUMSA 2005, Method GS 203-1 (1994)
	(Assay Purty; %)	(99.98)	(99.9) min	
2	Moisture Content (% ; w/w)	0.02	0.02 max	ICUMSA 2005, Method GS 210-15 (2005)
3	Ash Content (% ; w/w)	0.005	0.015 max	ICUMSA 2005
4	Colour (ICUMSA Unit)	28	35 max	Method GS 203 - 17 (2002) ICUMSA 2005
5	Invert Sugar / Reducing Sugar (%)	0.005	0.04 max	Method GS 203 - 9 (2005) ICUMSA 2005
6	Ca (ppm)	24		Method GS 203 - 9 (2001) Method FPI - 1932
7	Particle Size			ICUMSA 2005
	Distribution of Grain size :			Method GS 2-37 (1994)
	not pass through 0.050 mm	22.40		
	not pass through 0.075 mm	17.89		
	not pass through 0.150 mm	20.89		
	not pass through 0.300 mm	13.93		
	not pass through 0.425 mm	8.55		
	not pass through 0.600 mm	11.30		
	not pass through 0.850 mm	3.75		
	not pass through (Swiss Part)	2.55		
	Mean Aperture (μm)	0.85		
	Classification of Variant (CV) (%)	31.85		
8	Appearance	White Crystal With No Foreign Materials	White Crystal With No Foreign Materials	Organoleptic
9	Taste	Typically Sweet With No Foreign Tastes	Typically Sweet With No Foreign Tastes	Organoleptic
10	Odour	No Off Odor	No Foreign Odours	Organoleptic
11	Total Mesophilic Bacterial (colony / 10 g) ^a	Nil	2 x 10 ⁵ max	SN 3140.2 : 2011
12	Yeast (colony / 10 g) ^a	5	10 max	SN 3140.2 : 2011
13	Mold (colony / 10 g) ^a	Nil	10 max	SN 3140.2 : 2011
14	Coliform (BPN / g) ^a	Below 3.0	<2	SN 3140.2 : 2011
15	Lead (mg/kg) ^a	Below 0.005	0.15 max	SN 19-2594-1998
16	Copper (mg/kg) ^a	Below 0.025	2.0 max	SN 19-2595-1998
17	Arsenic (mg/kg) ^a	Below 0.002	1.0 max	SN 19-2596-1998
18	Cadmium (mg/kg) ^a	Below 0.012	0.2 max	SN 19-2596-1998
19	Tin (mg/kg) ^a	Below 0.163	40 max	SN 19-2596-1998
20	Mercury (mg/kg) ^a	Below 0.001	0.05 max	SN 19-2595-1998
21	Sediment (mg/kg)	5.15	7.0 max	ICUMSA Method GS 203 - 15 (2002)
22	Sulfur Dioxide (mg/kg) ^a	0.37	2.0 max	SN 3140.2 : 2011

^a Agla : 1-2-3 (pink) batch number monophosphate (see product label) batch : 1 - Jan 2017 and 14.00 ; 2 - Jan 14.07 and 22.00 ; 3 - Jan 22.07 and 06.00

^a Quality Analysis of Independent Laboratory (see on certificate) Sucralose 2005, 0505, 0507

Prepared by :


Kurni Komalasari
QC Section Head

Approved by :


Wajito Diahadi
QA & QC Manager

LAMPIRAN 12 Certificate of Analysis Lactose

REVIEWED
Reviewed: 12.08.2021



CERTIFICATE OF ANALYSIS

Spec. No.: 10000000042 Version 02

Delivery No.: 80317067
Material: 13007670 GRANULAC® 200

Lot No. L101852218

Manufact. Date W22Y2018
Expiry Date W20Y2021

DEFINITION/CHARACTERS/PRODUCTION

GRANULAC 200 is MEGGLE's brand name for a milled lactose.
GRANULAC 200 conforms to the monograph "Lactose Monohydrate" in the European Pharmacopoeia (Ph. Eur.).
This monograph is harmonized between Ph. Eur., USP-NF and JP.
GRANULAC 200 is a white or almost white, crystalline, odourless powder. It is freely but slowly soluble in water, practically insoluble in ethanol (96 per cent).

Production and release site: Molkerei MEGGLE Wasserburg GmbH & Co. KG, Megglestr. 5-12, 83512 Wasserburg, Germany

The management system of Molkerei MEGGLE Wasserburg GmbH & Co. KG, Megglestr. 5-12, 83512 Wasserburg, Germany has been certified meeting the requirements of GMP and GDP according to EXCIPACT™.

Additional regulatory information is available under <https://www.meggle-pharma.com>.

	Method	Specification	Unit	Result
IDENTIFICATION				
Identification A/Ph. Eur. 2.2.24/Infrared absorption spectrophotometry		conforms		conforms*
Identification B/USP-NF <201>/Thin-layer chromatographic identification test		conforms		conforms*
Identification D/Ph. Eur. 2.5.12/Water		conforms		conforms*

TESTS

Appearance of solution	Ph. Eur. 2.2.1 Instrumental method (max 3 NTU equals "The solution S is clear")	max 3	NTU	0.2
Appearance of solution	Ph. Eur. 2.2.2 Method II	The solution is not more intensely coloured than reference solution BY ₁		conforms
Acidity or alkalinity	Ph. Eur. Lactose Monohydrate	The solution is colourless		conforms

Page 1 from 3

Molkerei MEGGLE Wasserburg GmbH & Co. KG, Megglestr. 5-12, 83512 Wasserburg am Inn, Germany, Telephone +49 (0) 8071 73-2, Fax +49 (0) 8071 73-444, info@meggle.de, www.meggle.com

Central Management: MEGGLE Wasserburg Vertriebsgesellschaft GmbH, represented by
Reinhold Schenck (Chairman), Marcus Hornbuth, Dr. Franz Mayer, Matthias Debel, Dr. Stefan Schmalz

REINHAUSE
 10000000042

CERTIFICATE OF ANALYSIS

Spec. No.: 10000000042 Version 02

 Delivery No.: 80317057
 Material: 13007670 GRANULAC® 200

Lot No. L101852218

	Method	Specification	Unit	Result
Acidity or alkalinity	Ph. Eur. Lactose Monohydrate Requirement of 0.1 M sodium hydroxide to change the colour of the indicator to pink or red	max 0.4	ml	0.2
Specific optical rotation (anhydrous substance)	Ph. Eur. 2.2.7	54.4 - 55.9	°	55.4
Absorbance: proteins and light-absorbing impurities at 400 nm	Ph. Eur. 2.2.25	max 0.04		0.00
Absorbance: proteins and light-absorbing impurities from 210 to 220 nm	Ph. Eur. 2.2.25	max 0.25		0.03
Absorbance: proteins and light-absorbing impurities from 270 to 300 nm	Ph. Eur. 2.2.25	max 0.07		0.01
Heavy metals	JP <1.07> Method 1	max 5	µg/g	conforms*
Water	Ph. Eur. 2.5.12	4.5 - 5.5	%	5.1
Loss on drying	USP-NF <731>	max 0.5	%	0.2
Sulfated ash	Ph. Eur. 2.4.14	max 0.1	%	conforms*
Particle size distribution < 32 µm	Ph. Eur. 2.9.38/Air-entrainment method (air-jet sieving); 10 g; + 0.1 g Al ₂ O ₃ ; p = 1500 - 2500 Pa; 2 min	45 - 75	%	46 - 75
Particle size distribution < 100 µm	Ph. Eur. 2.9.38/Air-entrainment method (air-jet sieving); 10 g; + 0.1 g Al ₂ O ₃ ; p = 1500 - 2500 Pa; 2 min	min 90	%	91 - 99

MICROBIAL CONTAMINATION

Total aerobic microbial count (TAMC)	Ph. Eur. 2.6.12/USP-NF <61>/JP <4.05>	max 100	cfu/g	0
Total combined yeasts/moulds count (TYMC)	Ph. Eur. 2.6.12/USP-NF <61>/JP <4.05>	max 50	cfu/g	0
Escherichia coli	Ph. Eur. 2.6.13/USP-NF <62>/JP <4.05>	absence	/10 g	absence*
Salmonella spp.	Ph. Eur. 2.6.13/USP-NF <62>/JP <4.05>	absence	/10 g	absence

Page 2 from 3

Möckerei MEGGLE Wasserburg GmbH & Co. KG - Meggle 6-12 85510 Wasserburg am Inn, Germany - Telephone +49 (0) 89 71 73-0

Fax +49 (0) 89 71 73-444 info@meggle.de www.meggle.com

General Manager: MEGGLE Wasserburg Vertriebs GmbH, represented by

Rainald Schreiner (Chairman), Mirjam Hornig, Dr. Peter Meyer, Heidemarie Oelert, Dr. Stefan Schreiner

Registered Office: 85512 Wasserburg am Inn, Germany - Registered at: AG Traunstein HRV 1828 UAT-018 DEB/3457587



CERTIFICATE OF ANALYSIS

Spect. No.: 10000000042 Version 02

Delivery No.: 80317067
Material: 13007670 GRANULAC® 200

* The conformity to specification is assured by periodical testing.

CONTAINER/STORAGE

Well-closed container. Storage in an unopened, originally packed MEGGLE container at room temperature under dry and odour-free conditions.

This document is valid without signature.

Wasserburg: 02.07.2018
Quality assurance
Dr. G. Müller

The above data do not release purchaser from performing an incoming control. A legally binding assurance for the suitability of the product for a defined application purpose cannot be derived from the above.

Page 3 from 3

McKesson MEGGLE Wasserburg GmbH & Co. KG, Wegmann-Str. 12, 82512 Wasserburg am Inn, Germany, Telephone +49 (0) 89 71 75-3
Fax +49 (0) 89 71 75-444, info@meggle.de, www.meggle.com
General Management: MEGGLE Wasserburg Verordnungs GmbH, Rosenfeld 29
Reinhold Schwenck (Chairman), Marcel Hunkle, Dr. Frank Meyer, Matthias Ocker, Dr. Stefan Schmalz
Responsible Office: 82512 Wasserburg am Inn, Germany - Reaktionszeit AG Traunstein, HGA 7839 - UAT/Anw - 04/04/2008

LAMPIRAN 13 Certificate of Analysis PVP K30



Certificate of Analysis
BASF SE

Please note that the certificate of analysis also conveniently available online and around the clock at www.worldconnect.basf.com

Fax No 0026452306

PT MEGASETIA AGUNG KIRIA
NO.7-10 RT 014 RW.013 SUNTER AGUNG
14350 JAKARTA
Indonesia

2019-02-18
EN/CQA
Mr. Dr. Florian Witschek
florian.witschek@basf.com
Certificate No 1867
Page 1 of 2

Certificate of Analysis according to DIN 56360-18-4.2.2

Povidone K30
45KG Plastic drums
Purchase Order/Customer Product#
1062102017
00000000050471044

Material 50471044
Order 0009891047 000010
Delivery 3088683060 000010
Lot 3854726920
Lot/Qty 8320.000 KG
Total 8320.000 KG
Transport OCLLS630591

Test Parameter	Requirements	Unit	Results
Identification (test A)	must conform		conforms
pH-value	Min.: 3.8 Max.: 5.8		3.8
K-value	Min.: 27.8 Max.: 32.4		29.5
Aldehydes	Max.: 500	mg/kg	49
Peroxides	Max.: 400	mg/kg	38
Hydrazine	Max.: 1	mg/kg	<1
Vinylpyrrolidone (Impurity A)	Max.: 10	mg/kg	2
2-pyrrolidone (Impurity B)	Max.: 3.0	g/100g	1.4
Lead	must conform (Max.: 10 mg/kg)		conforms
Water	Max.: 5.0	g/100g	2.7
Residue on ignition / Sulphated ash	Max.: 0.1	g/100g	< 0.1
Residual solvent formic acid	Max.: 0.5	g/100g	0.3

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee or certain properties or of fitness for a specific purpose. The liability of each side for declared transactions.

megAsetia
PT. MEGASETIA AGUNG KIRIA
J A K A R T A

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Fax No 00626452936

PT MEGASETIA AGUNG KIMA

NO.7-10 RT.014 RW.013 SUNTER AGUNG

14350 JAKARTA

Indonesia

2018-02-13

ENVOQA

Hr. Dr. Florian Wildschek

florian.wildschek@basf.com

Certificate No: 1607

Page 2 of 3

Certificate of Analysis according to DIN 53350-10-4.2.2

Povidone K30

45KG Plastic drums

Purchase Order/Customer Product#

1062/12/2017

00000000050471044

Material	50471044
Order	0009991247 005010
Delivery	3006563680 005010
Lot	38542688E0
LotQty	8325.000 KG
Total	8325.000 KG
Transport	OCUL0830501

Test Parameter	Requirements	Unit	Results
Nitrogen (anhydrous basis)	Min.: 11.5 Max.: 12.8	g/100g	12.5
Total aerobic microbial count (TAMC) Test method USP <61>	Max.: 200	CFU/g	<10
Total combined yeasts/moulds count (TYMC) Test method USP <61>	Max.: 20	CFU/g	<10

The product meets the requirements of the following monograph:

"Povidone" of USP48/NF35

Manufacturer: BASF SE
Carl-Lösche-Straße 38
67056 Ludwigshafen
Germany

QC-Reference-No.

17089873

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any liability binding, guarantee of certain properties or of fitness for a specific purpose. No liability of ours can be derived therefrom.

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JAKARTA

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Fax No 00626452306

PT MEGASETIA AGUNG KIRANA
 NO.7-10 RT.014 RW.013 SUNTER AGUNG
 14350 JAKARTA
 Indonesia

2018-09-19
 ENOXGA
 Hr. Dr. Florian Wildschek
florian.wildschek@basf.com
 Certificate No 1507
 Page 3 of 3

Certificate of Analysis according to DIN 55350-19-4.2.2

Povidone K30
 45KG Plastic drums
 Purchase Order/Customer Product#
 106212/2017
 0000000050471044

Material	50471044
Order	5005591247 000010
Delivery	3090593650 000010
Lot	38547268E0
Lot/Qty	8325.000 KG
Total	8325.000 KG
Transport	COLU5830501

Production date	(YYYY-MM)	2017-08
Release date	(YYYY-MM-DD)	2017-08-20
Expiry date	(YYYY-MM)	2019-08

BASF SE
 Quality Assurance - Release
 sig. Mr. Fröhlich
 QA-Representative

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing it off. The data are controlled at regular intervals as part of our quality assurance program. Neither these data nor the properties of product specimens shall imply any legally binding guarantee of origin, propriety, or purity, even for a specific purpose. The liability of data can be derived therefrom.



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