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LAMPIRAN 1

Tabel Lampiran 1. Karakterisasi secara morfologi, isolat mikroba PGPR asal rizosfer padi lokal aromatik Kamba

No	Kode Isolat	Ukuran	Bentuk koloni	Tepi	Elevasi	Warna koloni
1	KBA1	Kecil	Melingkar	Rata	Datar	Kuning
2	KBA3	Sedang	Melingkar	Rata	Datar	Krem
3	KBA6	Kecil	Melingkar	Rata	Melengkung	Kuning
4	KBA8	Kecil	Melingkar	Rata	Datar	Putih
5	KBA11	Kecil	Melingkar	Rata	Naik	Putih
6	KBA12	Besar	Melingkar	Bergerigi	Datar	Krem
7	KBA13	Besar	Melingkar	Bergelombang	Datar	Putih
8	KBA14	Kecil	Melingkar	Rata	Melengkung	Krem
9	KBA15	Kecil	Melingkar	Rata	Naik	Kuning
10	KBA16	Kecil	Melingkar	Rata	Datar	Krem
11	KBA17	Kecil	Melingkar	Rata	Datar	Krem
12	KBA19	Sedang	Melingkar	Rata	Datar	Krem
13	KBA22	Titik	Melingkar	Rata	Melengkung	Kuning
14	KBK1	Kecil	Melingkar	Rata	Datar	Krem
15	KBK2	Sedang	Melingkar	Rata	Datar	Putih
16	KBK3	Sedang	Melingkar	Bergelombang	Datar	Krem
17	KBK4	Kecil	Melingkar	Rata	Datar	Krem
18	KBK11	Besar	Melingkar	Rata	Datar	Putih
19	KBK13	Kecil	Melingkar	Rata	Datar	Krem
20	KBK14	Kecil	Melingkar	Rata	Datar	Kuning
21	KBK15	Sedang	Melingkar	Rata	Datar	Putih
22	KBK16	Kecil	Melingkar	Rata	Datar	Krem
23	KBK17	Titik	Melingkar	Rata	Datar	Krem
24	KBK19	Kecil	Melingkar	Rata	Naik	Putih
25	KBL2	Kecil	Melingkar	Rata	Datar	Krem
26	KBL4	Sedang	Tak teratur	Berfilamen	Datar	Krem
27	KBL6	Kecil	Melingkar	Rata	Datar	Krem
28	KBL8	Kecil	Melingkar	Rata	Datar	Krem
29	KBL9	Titik	Melingkar	Rata	Melengkung	Kuning
30	KBL19	Kecil	Melingkar	Rata	Naik	Orange
31	KBL22	Kecil	Melingkar	Rata	Melengkung	Putih
32	KBL23	Sedang	Tak teratur	Bergelombang	Datar	Kuning
33	KBL26	Sedang	Melingkar	Rata	Naik	Krem
34	KBL30	Kecil	Melingkar	Rata	Naik	Kuning
35	KBU6	Sedang	Melingkar	Berlekuk	Melengkung	Putih
36	KBU7	Sedang	Melingkar	Rata	Naik	Putih

Lanjutan Tabel Lampiran 1. Karakterisasi secara morfologi, isolat mikroba PGPR asal rizosfer padi lokal aromatik Kamba

No	Kode Isolat	Ukuran	Bentuk koloni	Tepi	Elevasi	Warna koloni
37	KBU12	Kecil	Melingkar	Rata	Datar	Kuning
38	KBU14	Sedang	Melingkar	Rata	Naik	Putih
39	KBU16	Besar	Melingkar	Rata	Naik	Krem
40	KBU18	Sedang	Melingkar	Rata	Naik	Krem
41	KBU20	Sedang	Tak teratur	Berlekuk	Cembung	Putih
42	KBU21	Kecil	Melingkar	Rata	Naik	Putih
43	KBU22	Sedang	Melingkar	Rata	Melengkung	Krem
44	KBU23	Besar	Menyebar	Berfilamen	Datar	Putih
45	KBU25	Sedang	Melingkar	Rata	Datar	Kuning
46	KBU26	Kecil	Melingkar	Rata	Melengkung	Kuning
47	KGU3	Besar	Tak teratur	Bergelombang	Datar	Putih
48	KGU5	Sedang	Tak teratur	Bergelombang	Datar	Krem
49	KGU6	Sedang	Melingkar	Bergelombang	Datar	Kuning
50	KGU11	Sedang	Melingkar	Rata	Datar	Kuning
51	KGU14	Sedang	Melingkar	Bergelombang	Naik	Putih
52	KGU15	Kecil	Melingkar	Rata	Datar	Kuning
53	KGU16	Kecil	Melingkar	Rata	Datar	Krem
54	KGU17	Kecil	Melingkar	Rata	Datar	Kuning
55	KGU18	Sedang	Melingkar	Bergelombang	Datar	Kuning
56	KLE2	Kecil	Melingkar	Rata	Naik	Orange
57	KLE4	Kecil	Melingkar	Rata	Naik	Kuning
58	KLE13	Sedang	Melingkar	Rata	Datar	Krem
59	KLE18	Kecil	Melingkar	Rata	Naik	Kuning
60	KLE19	Kecil	Melingkar	Rata	Naik	Orange
61	KLE25	Kecil	Melingkar	Rata	Naik	Kuning
62	RKBA1	Kecil	Melingkar	Rata	Melengkung	Kuning
63	RKBA3	Kecil	Melingkar	Rata	Naik	Krem
64	RKBK1	Kecil	Melingkar	Rata	Datar	Krem
65	RKBK3	Kecil	Tak teratur	Bergelombang	Naik	Kuning
66	RKBK4	Kecil	Melingkar	Rata	Datar	Krem
67	RKBL5	Kecil	Melingkar	Rata	Datar	Kuning
68	RKBL6	Sedang	Melingkar	Rata	Datar	Krem
69	RKBL7	Titik	Tak teratur	Berlekuk	Datar	Krem
70	RKBU1	Kecil	Melingkar	Rata	Datar	Bening
71	RKBU5	Kecil	Melingkar	Bergerigi	Naik	Putih

Lanjutan Tabel Lampiran 1. Karakterisasi secara morfologi, isolat mikroba PGPR asal rizosfer padi lokal aromatik Kamba

No	Kode Isolat	Ukuran	Bentuk koloni	Tepi	Elevasi	Warna koloni
72	RKGU4	Kecil	Melingkar	Rata	Datar	Kuning
73	RKGU6	Kecil	Melingkar	Rata	Datar	Krem
74	RKGU7	Sedang	Melingkar	Rata	Datar	Putih
75	RKGU8	Sedang	Melingkar	Bergelombang	Datar	Kuning
76	RKGU11	Sedang	Melingkar	Rata	Datar	Krem
77	RKGU12	Kecil	Melingkar	Rata	Datar	Putih
78	RKGU15	Titik	Melingkar	Rata	Datar	Hitam-unguan
79	RKLE2	Sedang	Melingkar	Rata	Datar	Krem
80	RKLE3	Sedang	Melingkar	Bergelombang	Datar	Krem
81	RKLE5	Sedang	Melingkar	Rata	Naik	Putih
82	RKLE6	Sedang	Melingkar	Rata	Datar	Putih
83	RKLE7	Sedang	Tak teratur	Bergelombang	Naik	Putih
84	RKLE10	Kecil	Melingkar	Rata	Datar	Krem
85	RKLE11	Kecil	Melingkar	Rata	Datar	Kuning
86	RKLE15	Kecil	Melingkar	Rata	Datar	Kuning

LAMPIRAN 2

Tabel Lampiran 2. Karakter Fisiologis Isolat Mikroba PGPR Asal Rizosfer Tanaman Padi Lokal Aromatik Sulawesi Tengah

No	Kode Isolat	Reaksi Gram (+/-)	Reaksi Katalase (+/-)	Produksi Hormon		Fiksasi Nitrogen		Kemampuan Pelarutan Fosfat					Produksi Siderofor		Pathogenitas		Produksi HCN
				IAA (mg/l)	GA3 (mg/l)	Produksi N	N Total (%)	pH	Diameter zona bening (cm)	Diameter koloni (cm)	Efisiensi Fosfat (EP)	Indeks Pelarutan (IP)	Konsentrasi fosfat terlarut (mg/l)	Konsentrasi Tipe Katekol (mg/l)	Konsentrasi Tipe Salisilat (mg/l)	Uji HR (+/-)	Uji Hemolisis (+/-)	
1	KBA1	(+)	(+)	0,619	3,141	(+)	16,46	4,46	1,45	0,65	223,08	3,23	5,723	5,876	4,693	(-)	(+)	(-)
2	KBA3	(+)	(-)	0,524	2,993	(-)	0,00	5,02	1,15	1,13	101,77	2,02	9,000	7,354	4,358			
3	KBA6	(+)	(+)	1,000	3,184	(-)	0,00	5,42	0,00	0,00	0,00	0,00	0,00	6,215	4,676			
4	KBA8	(-)	(+)	0,825	2,957	(+)	19,36	4,31	1,38	0,83	166,27	2,66	5,267	10,990	5,022	(-)	(-)	(-)
5	KBA11	(+)	(-)	0,905	2,911	(-)	0,00	5,09	0,98	0,76	128,95	2,29	8,555	6,651	4,078			
6	KBA12	(+)	(+)	0,333	3,109	(-)	0,00	5,19	2,46	2,00	123,00	2,23	6,675	9,105	4,654			
7	KBA13	(+)	(+)	0,349	3,008	(-)	0,00	4,27	1,05	0,85	123,53	2,24	5,152	7,196	4,525			
8	KBA14	(+)	(+)	0,492	2,938	(++)	26,85	4,17	1,43	0,66	216,67	3,17	3,492	9,234	4,458	(-)	(-)	(-)
9	KBA15	(+)	(-)	1,127	2,992	(-)	0,00	5,35	1,00	0,83	120,48	2,20	9,382	7,612	3,620			
10	KBA16	(+)	(+)	0,540	3,006	(-)	0,00	4,88	0,98	0,76	128,95	2,29	8,508	6,469	3,793			
11	KBA17	(+)	(+)	0,571	2,958	(-)	0,00	5,09	0,00	0,00	0,00	0,00	0,00	7,737	4,469			
12	KBA19	(+)	(+)	1,286	3,042	(-)	0,00	5,67	0,91	0,76	119,74	2,20	9,010	3,818	2,777			
13	KBA22	(+)	(-)	1,683	2,983	(+++)	33,98	4,43	1,05	0,60	175,00	2,75	2,911	8,426	4,184	(-)	(-)	(-)
14	KBK1	(+)	(+)	0,937	2,977	(-)	0,00	5,47	0,68	0,51	133,33	2,33	8,408	4,775	3,721			
15	KBK2	(-)	(+)	1,651	2,861	(-)	0,00	5,84	1,96	1,63	120,25	2,20	8,628	9,077	4,318			
16	KBK3	(-)	(+)	0,317	2,999	(+)	13,30	4,29	1,23	0,61	201,64	3,02	3,775	7,344	4,190	(-)	(-)	(-)
17	KBK4	(+)	(+)	1,952	2,949	(-)	0,00	5,59	0,65	0,50	130,00	2,30	9,853	4,282	2,922			
18	KBK11	(-)	(+)	0,254	2,940	(-)	0,00	4,14	0,96	0,70	137,14	2,37	3,979	6,837	3,592			
19	KBK13	(+)	(+)	0,000	2,956	(-)	0,00	5,43	1,36	0,98	138,78	2,39	9,618	7,589	3,743			
20	KBK14	(+)	(-)	1,333	4,584	(+)	15,53	4,31	0,90	0,61	147,54	2,48	2,576	9,612	4,648	(-)	(-)	(-)

Lanjutan Tabel Lampiran 2. Karakter Fisiologis Isolat Mikroba PGPR Asal Rizosfer Tanaman Padi Lokal Aromatik Sulawesi Tengah

No	Kode Isolat	Reaksi Gram (+/-)	Reaksi Katalase (+/-)	Produksi Hormon		Fiksasi Nitrogen		Kemampuan Pelarutan Fosfat					Produksi Siderofor		Pathogenitas		Produksi HCN
				IAA (mg/l)	GA3 (mg/l)	Produksi N	N Total (%)	pH	Diameter zona bening (cm)	Diameter koloni (cm)	Efisiensi Fosfat (EP)	Indeks Pelarutan (IP)	Konsentrasi fosfat terlarut (mg/l)	Konsentrasi Tipe Katekol (mg/l)	Konsentrasi Tipe Salisilat (mg/l)	Uji HR (+/-)	Uji Hemolisis (+/-)	
21	KBK15	(+)	(+)	1,016	3,276	(-)	0,00	4,77	1,43	1,10	130,00	2,30	8,194	4,115	3,570			
22	KBK16	(+)	(+)	0,667	2,955	(-)	0,00	5,12	1,30	1,05	123,81	2,24	8,885	6,129	3,223			
23	KBK17	(+)	(+)	1,127	3,073	(-)	0,00	5,51	1,08	0,78	138,46	2,38	8,518	7,416	4,860			
24	KBK19	(-)	(+)	0,556	2,926	(-)	0,00	5,00	0,77	0,70	110,00	2,10	7,895	8,158	4,436			
25	KBL2	(+)	(+)	0,937	3,012	(-)	0,00	5,04	0,00	0,00	0,00	0,00	0,00	5,890	2,810			
26	KBL4	(+)	(+)	0,365	2,971	(-)	0,00	5,01	0,00	0,00	0,00	0,00	0,00	6,201	3,447			
27	KBL6	(+)	(+)	0,190	3,029	(-)	0,00	4,82	0,00	0,00	0,00	0,00	0,00	4,722	2,844			
28	KBL8	(+)	(-)	0,587	3,084	(-)	0,00	4,67	0,00	0,00	0,00	0,00	0,00	8,297	4,168			
29	KBL9	(+)	(+)	0,889	2,979	(-)	0,00	3,94	0,81	0,61	132,79	2,33	2,424	9,000	4,324			
30	KBL19	(+)	(+)	0,508	3,050	(-)	0,00	6,37	0,00	0,00	0,00	0,00	0,00	4,708	5,240			
31	KBL22	(-)	(+)	1,175	2,925	(-)	0,00	5,21	0,38	0,36	105,56	2,06	9,707	4,990	3,704			
32	KBL23	(+)	(-)	1,476	3,043	(-)	0,00	4,99	0,00	0,00	0,00	0,00	0,00	6,971	4,447			
33	KBL26	(+)	(-)	1,032	3,065	(-)	0,00	4,38	0,80	0,70	114,29	2,14	9,178	8,215	4,989			
34	KBL30	(+)	(-)	0,968	2,917	(-)	0,00	3,91	0,80	0,60	133,33	2,33	2,251	8,541	4,385			
35	KBU6	(-)	(+)	2,397	2,882	(-)	0,00	5,27	0,98	0,80	122,50	2,23	9,937	6,593	2,966			
36	KBU7	(+)	(+)	0,714	2,918	(-)	0,00	6,27	0,00	0,00	0,00	0,00	0,00	3,593	3,676			
37	KBU12	(+)	(-)	0,810	2,899	(-)	0,00	4,27	0,70	0,58	120,69	2,21	8,204	6,818	4,804			
38	KBU14	(-)	(+)	10,476	2,928	(+)	20,26	5,98	0,98	0,75	130,67	2,31	8,675	7,254	2,994	(-)	(-)	(-)
39	KBU16	(-)	(+)	0,794	3,123	(-)	0,00	5,16	0,00	0,00	0,00	0,00	0,00	5,057	3,793			
40	KBU18	(+)	(+)	1,127	3,127	(-)	0,00	4,78	1,10	0,97	113,40	2,13	8,424	0,000	0,000			
41	KBU20	(-)	(+)	0,984	2,963	(-)	0,00	5,10	1,05	1,00	105,00	2,05	13,058	6,699	4,441			
42	KBU21	(+)	(+)	0,762	3,027	(+)	0,00	5,55	1,03	0,78	132,05	2,32	7,859	3,426	2,827			

Lanjutan Tabel Lampiran 2. Karakter Fisiologis Isolat Mikroba PGPR Asal Rizosfer Tanaman Padi Lokal Aromatik Sulawesi Tengah

No	Kode Isolat	Reaksi Gram (+/-)	Reaksi Katalase (+/-)	Produksi Hormon		Fiksasi Nitrogen		Kemampuan Pelarutan Fosfat					Produksi Siderofor		Potensi Patogen		Produksi HCN
				IAA (mg/l)	GA3 (mg/l)	Produksi N	N Total (%)	pH	Diameter zona bening (cm)	Diameter koloni (cm)	Efisiensi Fosfat (EP)	Indeks Pelarutan (IP)	Konsentrasi fosfat terlarut (mg/l)	Konsentrasi Tipe Katekol (mg/l)	Konsentrasi Tipe Salisilat (mg/l)	Uji HR (+/-)	Uji Hemolisis (+/-)	
43	KBU22	(+)	(-)	10,921	3,244	(+)	20,61	4,58	0,96	0,73	131,51	2,32	9,445	9,139	5,553	(-)	(-)	(+)
44	KBU23	(+)	(-)	0,000	3,083	(-)	0,00	5,10	0,00	0,00	0,00	0,00	0,00	6,086	3,922			
45	KBU25	(+)	(-)	3,698	3,259	(++)	25,32	4,59	0,70	0,65	107,69	2,08	8,073	8,627	4,793	(-)	(+)	(-)
46	KBU26	(+)	(-)	0,349	3,043	(-)	0,00	4,60	1,13	0,91	124,18	2,24	5,330	7,349	4,469			
47	KGU3	(+)	(+)	0,000	3,032	(+)	16,31	4,82	1,03	0,85	121,18	2,21	8,550	8,761	5,553	(-)	(+)	(-)
48	KGU5	(+)	(+)	0,651	3,012	(-)	0,00	5,15	0,60	0,51	117,65	2,18	9,204	7,383	3,441			
49	KGU6	(+)	(+)	0,778	2,912	(-)	0,00	4,96	0,88	0,76	115,79	2,16	7,770	5,010	3,330			
50	KGU11	(+)	(+)	0,508	3,001	(-)	0,00	4,98	0,80	0,65	123,08	2,23	9,634	5,890	3,788			
51	KGU14	(+)	(+)	2,159	2,887	(-)	0,00	4,89	1,04	1,03	100,97	2,01	8,309	9,072	3,553			
52	KGU15	(+)	(+)	0,524	2,936	(-)	0,00	4,67	0,90	0,71	126,76	2,27	9,199	7,187	3,788			
53	KGU16	(+)	(+)	0,762	3,014	(-)	0,00	5,02	0,98	0,78	125,64	2,26	9,906	8,230	4,117			
54	KGU17	(+)	(+)	0,619	2,936	(-)	0,00	4,96	0,88	0,71	123,94	2,24	8,571	6,847	3,955			
55	KGU18	(-)	(+)	0,730	2,848	(-)	0,00	4,89	0,87	0,61	142,62	2,43	8,759	6,943	4,436			
56	KLE2	(-)	(+)	0,810	3,016	(-)	0,00	5,83	1,15	0,98	117,35	2,17	8,419	9,258	5,156			
57	KLE4	(-)	(+)	0,651	3,007	(-)	0,00	5,50	0,84	0,72	116,67	2,17	9,099	7,278	3,866			
58	KLE13	(-)	(+)	4,540	3,370	(++)	28,88	5,36	1,24	1,21	102,48	2,02	7,084	6,593	5,525	(-)	(+)	(-)
59	KLE18	(-)	(+)	3,000	3,226	(+++)	30,94	5,49	0,99	0,95	104,21	2,04	8,717	9,498	5,480	(-)	(-)	(-)
60	KLE19	(+)	(+)	1,683	3,376	(+++)	39,41	5,54	1,40	0,86	162,79	2,63	9,215	10,947	6,989	(-)	(-)	(+)
61	KLE25	(+)	(-)	11,429	3,179	(++)	26,48	5,70	1,78	1,55	114,84	2,15	7,293	11,062	6,380			
62	RKBA1	(-)	(+)	2,810	2,882	(-)	0,00	5,00	1,20	0,91	131,87	2,32	7,984	7,880	4,101			
63	RKBA3	(+)	(+)	0,683	2,985	(-)	0,00	5,55	1,13	1,10	102,73	2,03	8,560	7,431	4,961			
64	RKBK1	(+)	(+)	0,921	2,868	(-)	0,00	5,81	1,00	0,91	109,89	2,10	9,215	7,187	4,034			

Lanjutan Tabel Lampiran 2. Karakter Fisiologis Isolat Mikroba PGPR Asal Rizosfer Tanaman Padi Lokal Aromatik Sulawesi Tengah

No	Kode Isolat	Reaksi Gram (+/-)	Reaksi Katalase (+/-)	Produksi Hormon		Fiksasi Nitrogen		Kemampuan Pelarutan Fosfat					Produksi Siderofor		Potensi Patogen		
				IAA (mg/l)	GA3 (mg/l)	Produksi N	N Total (%)	pH	Diameter zona bening (cm)	Diameter koloni (cm)	Efisiensi Fosfat (EP)	Indeks Pelarutan (IP)	Konsentrasi fosfat terlarut (mg/l)	Konsentrasi Tipe Katekol (mg/l)	Konsentrasi Tipe Salisilat (mg/l)	Uji HR (+/-)	Uji Hemolisis (+/-)	Produksi HCN
65	RKBK3	(+)	(+)	1,000	2,998	(-)	0,00	5,44	1,16	0,86	134,88	2,35	8,911	6,703	4,335			
66	RKBK4	(+)	(+)	0,460	3,087	(-)	0,00	4,94	1,32	1,10	120,00	2,20	7,995	6,976	4,397			
67	RKBL5	(-)	(-)	2,952	3,056	(-)	0,00	4,62	1,01	0,73	138,36	2,38	7,848	8,416	3,804			
68	RKBL6	(-)	(-)	1,476	2,957	(-)	0,00	4,38	1,00	0,70	142,86	2,43	6,560	8,053	4,251			
69	RKBL7	(-)	(+)	2,952	2,961	(-)	0,00	4,82	1,26	0,98	128,57	2,29	7,529	8,833	3,849			
70	RKBU1	(-)	(+)	0,000	3,068	(-)	0,00	4,72	0,75	0,71	105,63	2,06	8,990	8,852	3,810			
71	RKBU5	(-)	(+)	2,095	2,975	(-)	0,00	5,02	1,06	0,91	116,48	2,16	9,644	5,699	3,318			
72	RKGU4	(-)	(+)	6,841	2,860	(+)	22,37	4,97	1,21	0,96	126,04	2,26	14,351	10,220	4,475	(-)	(-)	(-)
73	RKGU6	(-)	(+)	3,651	2,923	(-)	0,00	4,95	1,43	1,16	123,28	2,23	10,984	7,890	3,693			
74	RKGU7	(-)	(+)	1,444	3,073	(++)	28,54	5,33	1,23	0,78	157,69	2,58	9,921	9,053	3,682	(-)	(-)	(-)
75	RKGU8	(-)	(-)	0,841	2,964	(+++)	34,74	4,31	0,87	0,61	142,62	2,43	5,225	9,756	3,855	(-)	(-)	(-)
76	RKGU11	(-)	(+)	4,905	2,913	(-)	0,00	5,17	1,36	1,18	115,25	2,15	8,791	8,584	4,145			
77	RKGU12	(-)	(+)	0,778	2,935	(-)	0,00	4,86	1,15	0,75	153,33	2,53	8,325	7,005	3,447			
78	RKGU15	(-)	(+)	3,667	3,247	(+)	17,78	5,27	1,16	0,91	127,47	2,27	9,607	9,493	4,877	(-)	(-)	(+)
79	RKLE2	(-)	(+)	1,079	2,939	(-)	0,00	5,77	0,86	0,86	100,00	2,00	8,827	5,986	2,749			
80	RKLE3	(-)	(+)	1,159	3,028	(-)	0,00	5,35	0,88	0,63	139,68	2,40	9,115	8,450	4,324			
81	RKLE5	(+)	(+)	0,000	0,000	(-)	0,00	6,06	0,68	0,65	104,62	2,05	8,864	0,000	0,000			
82	RKLE 6	(-)	(+)	1,063	2,930	(-)	0,00	4,96	1,03	0,76	135,53	2,36	8,791	7,368	3,961			
83	RKLE7	(+)	(+)	1,254	2,986	(-)	0,00	4,88	1,35	1,06	127,36	2,27	9,644	6,086	3,994			
84	RKLE10	(+)	(+)	0,603	3,193	(++)	24,17	4,61	1,03	0,55	187,27	2,87	8,764	12,038	5,777	(-)	(-)	(-)
85	RKLE11	(-)	(+)	0,651	3,000	(+)	16,26	5,59	1,03	0,61	168,85	2,69	6,801	8,062	4,346	(-)	(-)	(-)
86	RKLE15	(-)	(+)	0,762	2,911	(-)	0,00	5,37	0,93	0,88	105,68	2,06	8,068	8,254	4,542			

LAMPIRAN 3

Tabel Lampiran 3a. Rata-rata tinggi tanaman (cm) padi lokal Kamba umur 14 HST

Perlakuan	Ulangan			Total	Rata-rata
	1	2	3		
KONTROL	7,90	6,30	3,00	17,2	5,73
KBA 22	7,20	11,40	5,70	24,3	8,10
KBK 14	8,00	9,50	10,80	28,3	9,43
KBU 22	9,40	10,00	8,80	28,2	9,40
KLE 18	11,20	15,30	9,80	36,3	12,10
KLE 19	10,50	9,80	11,50	31,8	10,60
KLE 25	11,30	15,80	8,90	36,0	12,00
RKGU 4	8,50	8,00	11,00	27,5	9,17
RKGU 7	6,50	9,20	8,50	24,2	8,07
RKGU 8	8,80	9,80	8,00	26,6	8,87
RKLE 10	10,50	11,00	12,20	33,7	11,23
Total	99,80	116,10	98,20	314,10	9,52

Tabel Lampiran 3b. Sidik ragam rata-rata tinggi tanaman (cm) padi lokal Kamba umur 14 HST

Sumber Keragaman	dB	JK	KT	F hit	F tabel	
					0.05	0.01
Perlakuan	10	107,85	10,78	2,66*	2,14	3,26
Galat	22	89,18	4,05			
Total	32	197,03				
KK	0,21%					

Keterangan: * = berpengaruh nyata

LAMPIRAN 4

Tabel Lampiran 4a. Rata-rata bobot segar tanaman (g) padi lokal Kamba umur 14 HST

Perlakuan	Ulangan			Total	Rata-rata
	1	2	3		
KONTROL	0,030	0,033	0,030	0,093	0,031
KBA 22	0,047	0,057	0,056	0,160	0,053
KBK 14	0,072	0,061	0,075	0,208	0,069
KBU 22	0,087	0,071	0,089	0,248	0,083
KLE 18	0,084	0,069	0,082	0,234	0,078
KLE 19	0,078	0,081	0,081	0,240	0,080
KLE 25	0,067	0,150	0,108	0,325	0,108
RKGU 4	0,048	0,072	0,051	0,171	0,057
RKGU 7	0,079	0,052	0,044	0,174	0,058
RKGU 8	0,052	0,067	0,050	0,169	0,056
RKLE 10	0,049	0,053	0,063	0,165	0,055
Total	0,694	0,765	0,729	2,187	0,066

Tabel Lampiran 4b. Sidik ragam rata-rata bobot segar tanaman (g) padi lokal Kamba umur 14 HST

Sumber Keragaman	dB	JK	KT	F hit	F tabel	
					0.05	0.01
Perlakuan	10	0,0125	0,0012	5,212**	2,142	3,258
Galat	22	0,0053	0,0002			
Total	32	0,0177				
KK			0,23%			

Keterangan: ** = berpengaruh sangat nyata

LAMPIRAN 5

Tabel Lampiran 5a. Rata-rata panjang akar (cm) tanaman padi lokal Kamba umur 14 HST

Perlakuan	Ulangan			Total	Rata-rata
	1	2	3		
KONTROL	4,80	4,00	5,00	13,80	4,60
KBA 22	4,20	7,10	9,10	20,40	6,80
KBK 14	9,50	9,20	8,80	27,50	9,17
KBU 22	4,70	7,10	12,00	23,80	7,93
KLE 18	6,90	5,00	9,90	21,80	7,27
KLE 19	7,40	7,30	7,90	22,60	7,53
KLE 25	8,80	11,70	8,50	29,00	9,67
RKGU 4	7,00	7,00	6,40	20,40	6,80
RKGU 7	8,00	5,40	5,20	18,60	6,20
RKGU 8	6,00	6,80	5,00	17,80	5,93
RKLE 10	8,10	7,50	7,20	22,80	7,60
Total	75,40	78,10	85,00	238,50	7,23

Tabel Lampiran 5b. Sidik ragam rata-rata panjang akar (cm) tanaman padi lokal Kamba umur 14 HST

Sumber Keragaman	dB	JK	KT	F hit	F tabel	
					0.05	0.01
Perlakuan	10	61,33	6,13	2,03 tn	2,14	3,26
Galat	22	66,46	3,02			
Total	32	127,79				
KK			0,24%			

Keterangan: tn = tidak berpengaruh nyata

LAMPIRAN 6

Tabel Lampiran 6a. Rata-rata bobot kering tanaman (g) padi lokal Kamba umur 14 HST

Perlakuan	Ulangan			Total	Rata-rata
	1	2	3		
KONTROL	0,013	0,013	0,012	0,038	0,013
KBA 22	0,012	0,014	0,013	0,038	0,013
KBK 14	0,013	0,012	0,014	0,039	0,013
KBU 22	0,010	0,016	0,013	0,039	0,013
KLE 18	0,015	0,012	0,016	0,044	0,015
KLE 19	0,013	0,017	0,016	0,046	0,015
KLE 25	0,018	0,014	0,016	0,048	0,016
RKGU 4	0,013	0,011	0,016	0,040	0,013
RKGU 7	0,013	0,010	0,010	0,033	0,011
RKGU 8	0,011	0,014	0,013	0,038	0,013
RKLE 10	0,011	0,012	0,013	0,036	0,012
Total	0,140	0,145	0,153	0,438	0,013

Tabel Lampiran 6b. Sidik ragam rata-rata bobot kering tanaman (g) padi lokal Kamba umur 14 HST

Sumber Keragaman	dB	JK	KT	F hit	F tabel	
					0.05	0.01
Perlakuan	10	0,000062	0,000006	1,90^{tn}	2,14	3,26
Galat	22	0,000071	0,000003			
Total	32	0,000133				
KK			14%			

Keterangan: tn = tidak berpengaruh nyata

LAMPIRAN 7

Lampiran 7a. Sekuen Gen 16S rRNA isolat bakteri asal rhizosfer tanaman Padi Lokal Kamba

Isolat KBU_22

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Isolat KLE-19

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Lampiran 7b. Hasil Analisis Sekuen gen 16S rRNA menggunakan program Analisis BlastN dari NCBI Online

Isolat KBU_22

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VERSION     EU439414.1
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REFERENCE   1  (bases 1 to 1445)
  AUTHORS   Chen,X., Ding,H., Zhao,Y., Du,Y. and Du,L.
  TITLE     Microbial Degradation of Decabromodiphenyl Ether (BDE-
209)
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 1445)
  AUTHORS   Chen,X., Ding,H., Zhao,Y., Du,Y. and Du,L.
  TITLE     Direct Submission
  JOURNAL   Submitted (30-JAN-2008) College of Life Science,
Institution of
            Microbiology, 388 Yuhangtang Road, Zijingang Campus,
Zhejiang
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Isolat KLE_19

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VERSION     JF899286.1
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  ORGANISM  Bacillus velezensis
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Bacillaceae; Bacillus;
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  AUTHORS   Li,F.Y.
  TITLE     Endophytic bacteria of tobacco
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 1457)
  AUTHORS   Li,F.Y.
  TITLE     Direct Submission
  JOURNAL   Submitted (29-APR-2011) Yunnan University, Laboratory
for
            Conservation and Utilization of Bio-resources,
Kunming, Yunnan
            650091, China
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      241 tcaccaaggc gacgatgcgt agccgacctg agagggtgat cggccacact
gggactgaga
      301 cacggcccag actcctacgg gaggcagcag tagggaatct tccgcaatgg
acgaaagtct
      361 gacggagcaa cgccgcgtga gtgatgaagg ttttcggatc gtaaagctct
gttgttaggg
      421 aagaacaagt gccgttcaaa tagggcggca ccttgacggt acctaaccag
aaagccacgg
      481 ctaactacgt gccagcagcc gcggtaatac gtaggtggca agcgttgtcc
ggaattattg
      541 ggcgtaaagg gctcgcaggc ggtttcttaa gtctgatgtg aaagcccccg
gctcaaccgg
```

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ttccacgtgt
661 agcggtgaaa tgcgtagaga tgtggaggaa caccagtggc gaaggcgact
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721 taactgacgc tgaggagcga aagcgtgggg agcgaacagg attagatacc
ctggtagtcc
781 acgccgtaaa cgatgagtgc taagtgttag ggggtttccg ccccttagtg
ctgcagctaa
841 cgcattaagc actccgcctg gggagtacgg tcgcaagact gaaactcaaa
ggaattgacg
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gaaccttacc
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gcagagtgac
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cccgcaacga
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actgccggtg
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cctgggctac
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ccaatcccac
1261 aaatctgttc tcagttcgga tcgcagtctg caactcgact gcgtgaagct
ggaatcgcta
1321 gtaatcgcgg atcagcatgc cgcggtgaat acgttcccgg gccttgtaca
caccgcccgt
1381 cacaccacga gagtttgtaa cacccgaagt cggtgaggta acctttatgg
agccagccgc
1441 cgaaggtgac agatgtg

LAMPIRAN 8

Tabel Lampiran 8. Hasil Analisis Contoh Tanah sebelum perlakuan

Nomor Contoh		Tekstur (pipet)				Ekstrak 1:2.5		Terhadap contoh kering 105^{0}C										
		Pasir	Debu	Liat			Salinitas	Bahan Organik				Nilai Tukar Kation (NH4-Acetat 1N, pH7)						
Urut	Lab	%			Klas Tekstur	H2O	dS m^{-1}	Walkey & Black C	Kjeldahl N	C/N	Olsen P_2O_5	Ca	Mg	K	Na	Jumlah	KTK	KB
								%			ppm	(cmol (+) kg^{-1})						%
1	A1	23	34	43	Liat	5,9	(-)	1,98	0,16	12	8,6	5,44	2,4	0,25	0,36	8,41	25,33	33

LAMPIRAN 9

Tabel Lampiran 9a. Hasil pengamatan bobot tanah kering angin

NO	KODE SAMPEL	BOBOT AWAL (g)	BOBOT SETELAH OVEN (g)	KEHILANGAN BOBOT (g)	KADAR AIR
1	D1	100	85,14	14,86	17,45%
2	D2	100	83,91	16,09	19,18%
3	D3	100	85,98	14,02	16,31%
RATA-RATA					17,65%

Tabel Lampiran 9b. Hasil pengamatan bobot tanah kapasitas lapang

NO	KODE SAMPEL	BOBOT AWAL (g)	BOBOT SETELAH OVEN (g)	KEHILANGAN BOBOT (g)	KADAR AIR
1	A1	100	66,51	33,49	50,35%
2	A2	100	69,81	30,19	43,25%
3	A3	100	65,67	34,33	52,28%
4	B1	100	67,82	32,18	47,45%
5	B2	100	64,84	35,16	54,23%
6	B3	100	65,31	34,69	53,12%
7	C1	100	64,09	35,91	56,03%
8	C2	100	65,36	34,64	53,00%
9	C3	100	65,95	34,05	51,63%
RATA-RATA					53,55%

Tabel Lampiran 11. Sidik ragam Tinggi tanaman 16 MST, Jumlah anakan 16 MST, Berat segar tajuk, Berat segar akar pada berbagai varietas, seed coating dan penyemprotan inokulum bakteri

Sumber Keragaman (SK)	dB	Kuadrat Tengah (KT)			
		Tinggi Tanaman (cm)	Jumlah anakan (rumpun)	Berat Segar Tajuk (g)	Berat Segar Akar (g)
KEL	2	43,40^{tn}	5,80^{tn}	2086,50^{tn}	75,60^{tn}
PU (V)	2	**1004,90****	**101,00****	**59115,50****	**828679,20****
ACAK (V)	4	38,80	3,40	3484,90	855,50
AP (S)	2	35,30^{tn}	**12,70***	26595,80**	**34517,70***
PU (V) x AP (S)	4	31,30^{tn}	5,00 ^{tn}	**3369,80****	2770,60^{tn}
ACAK (S)	12	27,50	3,10	217,00	6312,70
AAP (P)	2	1,10^{tn}	0,30^{tn}	13563,90**	**10137,10****
PU (V) x AAP (P)	4	15,80^{tn}	2,20^{tn}	**2057,10****	1460,10^{tn}
AP (S) X AAP (P)	4	46,50^{tn}	3,30^{tn}	625,70^{tn}	830,20^{tn}
PU (V) x AP (S) x AAP (P)	8	39,70^{tn}	4,50^{tn}	367,30^{tn}	555,60^{tn}
ACAK (P)	36	25,70	3,30	362,90	958,90
Total	80				
KK (v) =		5,94%	8,44%	17,40%	11,78%
KK (s) =		5,01%	8,11%	4,34%	31,99%
KK (p) =		4,84%	8,26%	5,61%	12,47%

Keterangan: tn = berpengaruh tidak nyata
* = berpengaruh nyata
** = berpengaruh sangat nyata

Tabel Lampiran 12. Sidik ragam Berat segar total tanaman, Berat kering tajuk, Berat kering akar, Berat kering total tanaman pada

berbagai varietas, seed coating dan penyemprotan inokulum bakteri

Sumber Keragaman (SK)	dB	Kuadrat Tengah (KT)			
		Berat Segar Total Tanaman (g)	Berat Kering Tajuk (g)	Berat Kering Akar (g)	Berat Kering Total Tanaman (g)
KEL	2	2915,60^{tn}	266,10^{tn}	300,70^{tn}	181,40^{tn}
PU (V)	2	2819640,50**	95164,00**	25068,90**	216433,40**
ACAK (V)	4	4409,40	364,90	170,30	131,30
AP (S)	2	121628,50**	1337,60**	785,00**	4149,70**
PU (V) x AP (S)	4	11815,90^{tn}	**141,00****	50,90^{tn}	**343,20****
ACAK (S)	12	6698,50	16,30	17,10	31,10
AAP (P)	2	46465,50**	609,30**	315,30**	1800,80**
PU (V) x AAP (P)	4	**5945,20***	**125,40****	**37,50****	**295,10****
AP (S) X AAP (P)	4	2781,50^{tn}	19,90^{tn}	10,00^{tn}	31,90^{tn}
PU (V) x AP (S) x AAP (P)	8	1548,70^{tn}	13,30^{tn}	7,20^{tn}	22,10^{tn}
ACAK (P)	36	1677,70	21,90	4,80	29,88
Total	80				
KK (v) =		11,30%	17,51%	23,53%	11,30%
KK (s) =		13,93%	3,70%	10,63%	13,93%
KK (p) =		6,97%	4,29%	5,64%	6,97%

Keterangan: tn = berpengaruh tidak nyata
* = berpengaruh nyata
** = berpengaruh sangat nyata

Tabel Lampiran 13. Sidik ragam Umur berbunga 50 %, Jumlah anakan produktif, Panjang malai, Jumlah gabah per malai pada berbagai varietas, seed coating dan penyemprotan inokulum bakteri

Sumber Keragaman (SK)	dB	Kuadrat Tengah (KT)			
		Umur berbunga 50 %	Jumlah Anakan Produktif (rumpun)	Panjang Malai (cm)	Jumlah Gabah per Malai (butir)
KEL	2	33,40^{tn}	2,40^{tn}	1,00^{tn}	166,60^{tn}
PU (V)	2	18078,40**	18,90*	129,40**	97,60^{tn}
ACAK (V)	4	5,40	1,50	0,40	148,80
AP (S)	2	41,70**	33,60**	59,90**	2308,70**
PU (V) x AP (S)	4	**11,00***	**14,30****	0,90^{tn}	**255,70****
ACAK (S)	12	2,20	1,50	0,40	32,70
AAP (P)	2	18,00**	42,20	20,60**	1500,10**
PU (V) x AAP (P)	4	1,90^{tn}	1,60^{tn}	0,20 ^{tn}	75,00^{tn}
AP (S) X AAP (P)	4	**7,40****	**3,90***	**1,30****	**233,20****
PU (V) x AP (S) x AAP (P)	8	1,30^{tn}	1,40^{tn}	0,30^{tn}	72,70^{tn}
ACAK (P)	36	1,70	1,20	0,30	40.10
Total	80				
KK (v) =		2,93%	6,23%	2,68%	9,74%
KK (s) =		1,89%	6,24%	2,63%	4,56%
KK (p) =		1,62%	5,62%	2,24%	5,06%

Keterangan: tn = berpengaruh tidak nyata
* = berpengaruh nyata
** = berpengaruh sangat nyata

Tabel Lampiran 14. Sidik ragam Jumlah total gabah per rumpun, Bobot gabah per rumpun, Bobot 1000 butir gabah, Gabah hampa pada berbagai varietas, seed coating dan penyemprotan inokulum bakteri

Sumber Keragaman	dB	Kuadrat Tengah (KT)			
		Jumlah Total Gabah Per Rumpun (butir)	Bobot Gabah Per Rumpun (g)	Bobot 1000 butir Gabah (g)	Gabah Hampa (%)
KEL	2	331017,10^{tn}	18,40^{tn}	1,10^{tn}	29,10^{tn}
PU (V)	2	153013,40^{tn}	957,40**	**118,70****	1,90^{tn}
ACAK (V)	4	109946,70	25,90	6,30	12,70
AP (S)	2	2873168,30**	157,00**	**28,60****	1543,40**
PU (V) x AP (S)	4	**524755,10***	**17,50****	1,30^{tn}	1,50^{tn}
ACAK (S)	12	148289,80	0,50	0,50	12,00
AAP (P)	2	2664691,90**	47,30**	**5,70****	804,90**
PU (V) x AAP (P)	4	69150,00^{tn}	**11,80****	0,40^{tn}	6,00^{tn}
AP (S) X AAP (P)	4	**334147,30****	3,40^{tn}	0,20^{tn}	**31,20***
PU (V) x AP (S) x AAP (P)	8	95387,10^{tn}	2,40^{tn}	0,30^{tn}	3,40^{tn}
ACAK (P)	36	81206,10	1,40	0,30	9,80
Total	80				
KK (v) =		13,23%	9,03%	10,54%	15,35%
KK (s) =		15,37%	1,31%	3,03%	14,92%
KK (p) =		11,37%	2,09%	2,15%	13,44%

Keterangan: tn = berpengaruh tidak nyata
* = berpengaruh nyata
** = berpengaruh sangat nyata

Tabel Lampiran 15. Sidik ragam Volume akar, Indeks luas daun dan Produktvitas pada berbagai varietas, seed coating dan penyemprotan inokulum bakteri

Sumber Keragaman (SK)	dB	Kuadrat Tengah (KT)		
		Volume Akar (ml)	Indeks Luas Daun	Produktivitas (Ton Ha^{-1})
KEL	2	2764,10^{tn}	0,10^{tn}	0,35^{tn}
PU (V)	2	869358,50**	**111,40****	18,02**
ACAK (V)	4	2463,80	1,08	0,49
AP (S)	2	54824,50**	0,03^{tn}	2,95**
PU (V) x AP (S)	4	**1713,30***	0,10^{tn}	**0,33****
ACAK (S)	12	438,90	0,20	0,01
AAP (P)	2	15104,50**	0,29^{tn}	0,89**
PU (V) x AAP (P)	4	1542,30^{tn}	0,15^{tn}	**0,22****
AP (S) X AAP (P)	4	1018,10^{tn}	0,05^{tn}	0,06^{tn}
PU (V) x AP (S) x AAP (P)	8	1156,50^{tn}	0,13^{tn}	0,04^{tn}
ACAK (P)	36	597,20	0,19	0,03
Total	80			
KK (v) =		19,30%	19,10%	9,00%
KK (s) =		8,10%	16,90%	1,30%
KK (p) =		9,50%	16,30%	2,10%

Keterangan: tn = berpengaruh tidak nyata
* = berpengaruh nyata
** = berpengaruh sangat nyata

Lampiran 16. Deskripsi Tanaman Padi Varietas Lokal Kamba

DESKRIPSI VARIETAS KAMBA

Komoditas	:	Padi Sawah
Tahun	:	2015
Anakan Produktif	:	+/- 17 malai
Asal	:	Kabupaten Poso, dan Sigi
Bentuk gabah	:	Gemuk
Bentuk Tanaman	:	Tegak
Bobot 1000 butir	:	+/- 21,79 gram
Golongan	:	Cere/Japonica
Jumlah Gabah per malai	:	+/- 104 butir
Kadar amilosa	:	+/- 10,76%
Kerebahan	:	Sedang
Kerontokan	:	Sedang
Permukaan daun	:	Halus
Posisi daun	:	Terkulai
Posisi daun bendera	:	Sedang
Rata-rata hasil	:	6,28 ton/ha GKG
Tekstur nasi	:	Pulen
Tinggi tanaman	:	+/- 110 – 120 cm
Umur tanaman	:	+/- 154 hari setelah sebar
Keterangan	:	Ketahanan terhadap hama: agar tahan – sedang terhadap wereng batang coklat. Ketahanan terhadap penyakit: tahan terhadap virus tungro.

***Sumber*: pvtpp setjen pertanian, 2015**

Lampiran 17. Deskripsi Tanaman Padi Varietas Inpari 16

DESKRIPSI VARIETAS INPARI 16

Komoditas	:	Padi Sawah
Tahun	:	2011
Anakan Produktif	:	+/- 17 malai
Asal	:	Ciherang/Cisadane
Bentuk gabah	:	Ramping
Bentuk Tanaman	:	Tegak
Bobot 1000 butir	:	+/- 25,9 gram
Golongan	:	Cere
Jumlah Gabah per malai	:	+/- 104 butir
Kadar amilosa	:	+/- 22,7%
Kerebahan	:	Toleran
Kerontokan	:	Sedang
Nomor pedigri	:	BP3412-2E-12-3-3-1*B
Permukaan daun	:	Kasar
Posisi daun	:	Tegak
Posisi daun bendera	:	Tegak
Potensi hasil	:	7,6 ton/ha GKG
Rata-rata hasil	:	6,3 ton/ha GKG
Tekstur nasi	:	Pulen
Tinggi tanaman	:	+/- 102 cm
Umur tanaman	:	+/- 118 hari setelah sebar
Keterangan	:	Ketahanan terhadap hama: agak rentan terhadap wereng batang coklat biotipe 1 dan 2, rentan biotipe 3. Ketahanan terhadap penyakit: Tahan terhadap hawar daun bakteri patotipe III, agak tahan terhadap patotipe IV dan patotipe VIII, tahan terhadap penyakit blas ras 033, agak tahan terhadap penyakit blas ras 073, rentan terhadap ras 133 dan 173, serta rentan terhadap viruns tungro. Cocok ditanam diekosistem sawah tadah hujan dataran rendah sampai ketinggian 600 m dpl

Sumber: Litbang Pertanian, 2012

Lampiran 18. Deskripsi Tanaman Padi Varietas Inpari 42

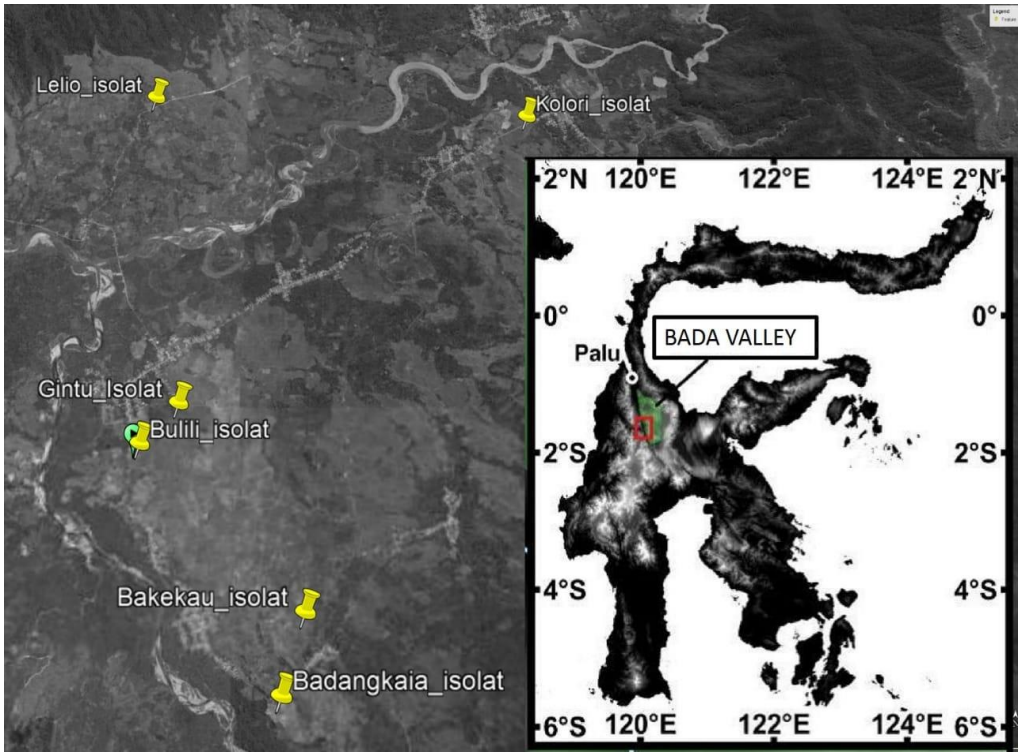
DESKRIPSI VARIETAS INPARI 42

Komoditas	:	Padi Sawah Irigasi
Tahun	:	2016
Anakan Produktif	:	+/- 18 malai
Asal seleksi	:	Huangxinzhan/Fenghuazhan
Bentuk gabah	:	Ramping
Bentuk Tanaman	:	Tegak
Bobot 1000 butir	:	+/- 24.41 gram
Golongan	:	Cere
Daun bendera	:	Tegak
Kadar amilosa	:	+/- 18.84 %
Kerebahan	:	Tahan
Kerontokan	:	Medium
Potensi hasil	:	10.58 ton/ha GKG
Rata-rata hasil	:	7.11 ton/ha GKG
Tekstur nasi	:	Pulen
Tinggi tanaman	:	+/- 93 cm
Umur tanaman	:	+/- 112 hari setelah sebar
Keterangan	:	Pada fase generatif agak tahan terhadap hawar daun bakteri patotipe III, rentan strain IV, dan agak rentan Strain VIII, tahan terhadap penyakit blas daun ras 073, agak tahan terhadap ras 033 dan rentan terhadap ras 133 dan 173. Agak tahan terhadap hama wereng batang coklat biotipe 1 dan agak rentan terhadap biotipe 2 dan 3, rentan terhadap virus tungro varian 033 dan 073.

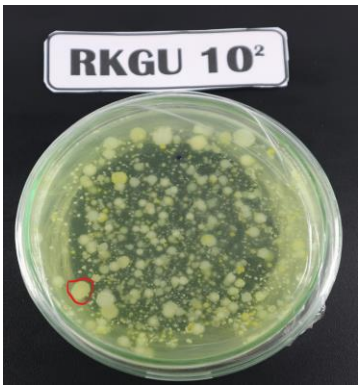
Sumber: Litbang pertanian, 2012

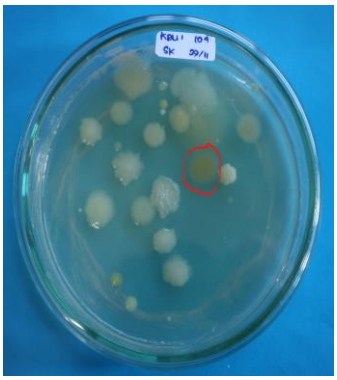
Lampiran 19. Gambar dua isolat unggul KBU22 dan KLE19

Lampiran 20. Gambar peta dan lokasi pengambilan sampel



Lampiran 21. Proses pembuatan media NA, isolasi dan identifikasi morfologi





Lampiran 22. Rangkaian proses kegiatan pengujian di Laboratorium

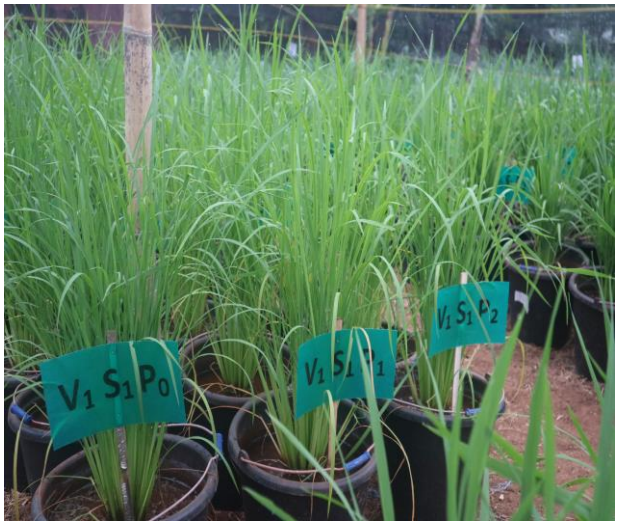
Lampiran 23. Pelapisan benih (seed coating) menggunakan isolat bakteri pada berbagai varietas tanaman padi

Lampiran 24. Persemaian benih dengan perlakuan seed coating dan tanpa seed coating

Lampiran 25. Penanaman bibit padi umur 14 HST (hari setelah semai)

Lampiran 26. Aplikasi inokulan bakteri menggunakan spray umur tanaman 14 HST

Lampiran 27. Tanaman padi umur 4 MST (Minggu Setelah Tanam)



Lampiran 28. Tanaman Padi saat berbunga dan saat menjelang panen

Lampiran 29a. Pengamatan akar tanaman padi varietas lokal Kamba

Lampiran 29b. Pengamatan akar tanaman padi varietas inpari 16

Lampiran 29c. Pengamatan akar tanaman padi varietas inpari 42