

DAFTAR PUSTAKA

- Aboh EA, Giwa FJ, Giwa A. 2015. Penilaian Mikrobiologis Perairan di Samaru, Zaria, Kaduna, Negara, Nigeria. *Ann Afr Med*, 14: 32–38. doi: 10.4103 / 1596-3519.148732.
- Afifah, N. 2013. Uji Salmonella-shigella pada telur unggas yang disimpan pada suhu dan waktu yang berbeda. *J. Edu Research*, 2 (1):35-46.
- Adriani. 2013. *Analisis Total Mikroba Dan Nilai Gizi (Protein) Pada Lawa Bale Makanan Tradisional Sulawesi Selatan*. Uin Alauddin Makassar: Makassar [SKRIPSI]
- Arifin, IM. 2015. *Deteksi Salmonella Sp. Pada Daging Sapi Di Pasar Tradisional Dan Pasar Modern Di Kota Makassar*. Universitas Hasanuddin: Makassar.
- Belas, R., Manos, J., Suvanasuthi, R. 2004. Proteus Mirabilis Zapa Metalloprotease Degrades A Broad Spectrum Of Substrates, Including Antimicrobial Peptides. *Infect. Immun*, 72: 5159–5167.
- Collin, CH., Lyne PM. 2004. *Microbiological Method, 8th ed*. London: Arnold.
- Dadheech, T, Reena V., Vijaylatha R. 2015. Antimicrobial Susceptibility Of Proteus Vulgaris Isolated From Sick Layer Chickens Infected With Arthritis In Ajmer Region Of Rajasthan. *World Journal Of Pharmacy And Pharmaceutical Sciences*, 4(6): 1288-1294.
- Drzewiecka, D. 2015. Significance and Roles of Proteus Spp. Bacteria in Natural Environments. *Microbiology Ecol Journal*, 72(3): 741-758
- Endang, W., Titi CS., Lala N. 2013. Kemasan Antimikrob Untuk Memperpanjang Umur Simpan Bakso Ikan. *Jurnal Ilmu Pertanian Indonesia*, 18(2): 125-131.
- Fardiaz, S. 1993. *Mikrobiologi Pengolahan Pangan*. Institut Pertanian Bogor : Departemen Pendidikan Dan Kebudayaan Direktorat Jenderal Pendidikan Tinggi Pusat Antar Universitas Pangan Dan Gizi
- Gaastra, W., Van ORAA., Pieters EWJ., Bergmans HEN., Van DL., Agnes A., Ter HHM. 1996. Isolation And Characterization Of Dog Uropathogenic Proteus Mirabilis Strains. *Vet Microbiol*, 48(!): 57–71
- Gani, A. 2003. *Metode Bakteriologi Diagnostik*. Makassar: Balai Besar Laboratorium Kesehatan (BBLK).
- Gorris, L. 2005. Food Safety Objective: An Integral Part Of Food Chain Management. *Food Control*, 16:801-809.
- Hadioetomo. 1990. *Mikrobiologi Dasar Dalam Praktek*. Jakarta : Gramedia
- Harianto, H. 2002. *Analisa Kandungan Salmonella sp pada produk telur unggas ras yang dijual pada pasar tradisional di kota Medan*. Universitas Sumatera Utara: Medan
- Haryoto. 1996. *Pengawetan Telur Segar*. Kanisisus: Yogyakarta.
- Hasyim, H. 2011. Analisis Bahaya Dan Pengendalian Titik Krisis Dalam Penyelenggaraan Warung Makan Di Kampus (Alternatif Pencegahan Foodborne Diseases). *Jurnal Ilmu Kesehatan Masyarakat*, 2(1): 2-6.
- Hemraj, V., Diksha A. 2013. A Review on commonly used biochemical test for bacter. *Innovare. Journal of life science*, 1(10): 1-7.
- Ibrahim, HR. 2000. Ovotransferrin. Dalam Naidu A. Ed, Natural Food Antimicrobial New York Systems. *CRC Press, Inc.*, 21: 211–226.
- Janda, J.M., Abbot S.L. 2006. The Enterobacteriaceae. *Asm Press*, 2: 233– 259.
- Jayasinghe, G., Hoek W., Jensen Pk., Cairncoss S., Daalsgard A. 2010. Is There An Association Between Bacteriological Drinking Water Quality And Childhood

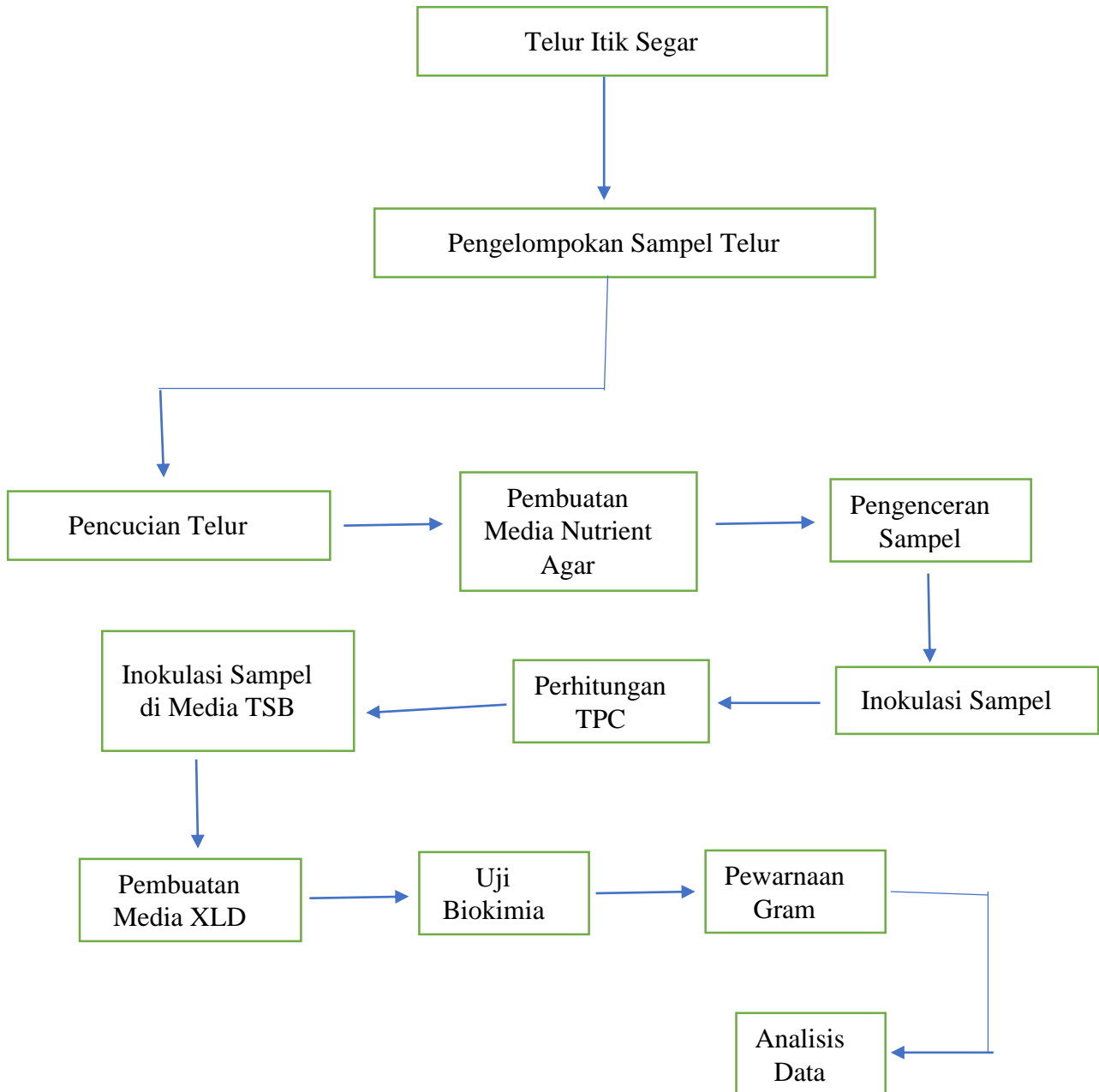
- Diarrhoea In Developing Countries. *Tropical Medicine And International Health Journal*, 9 (11): 1210-1215.
- Khoirunnisa, K., Gusti APP., Julio JGA., Tia F., Jeremia OC. 2017. Karakterisasi Bakteri Kontaminan Pada Putih dan Kuning Telur Unggas Kampung dalam Kondisi Mentah dan Setengah Matang (100°C/4Menit). <http://www.researchgate.net/project/Proyek-Penelitian-Kecil-Proyek-Mikrobiologi-2017>
- Kunova. S., Lucia Z., Lubomír L., Martin M., Jozef C., Peter Z., Miroslava K. 2017. Microbiological Quality Of Chicken Breast Meat After Application Of Thyme And Caraway Essential Oils. *Potravinarstvo Slovak Journal Of Food Sciences*, 11(1): 167-174.
- Lay, W., Bibiana. 1994. *Analisis Mikroba Di Laboratorium*. Jakarta : Raja Grafindo Persada.
- Lucci, JA. 2014. Determinative Bacteriology Of *Proteus Vulgaris*. *Research gate Journal*, 9: 491-511
- Lukman, DW., Latif H. 2007. *Penuntun Praktikum Higiene Pangan*. FKH IPB: Bogor. [Tidak Diterbitkan].
- Mayes, FJ., Mustafa A. Microbial Contamination Of TheHen's Egg: A Review. Loughry College Of Agriculture And Food Technology:Northern Ireland. *Takeballi Journal Of Food Protection*, 46 (12): 1092-1098 (December 1983)
- Muchtadi, Tr, Sugiyono. 1992. *Ilmu Pengetahuan Bahan Pangan*. Bogor:Departemen Pendidikan Dan Kebudayaan Direktorat Jenderal Pendidikan Tinggi Pusat Antar Universitas Pangan Dan Gizi, Institut Pertanian Bogor.
- Nagaraju D, Sastri JCV. 1999. Polusi tinja yang terkonfirmasi mengalir perairan kota Mysore. *Environ Geol*, 38 (4): 322–326. doi: 10.1007 / s002540050429.
- Nugroho, LA. 2016. *Potensi Ekstrak Daun Lamtoro (Leucaena Leucocephala Lamk) Sebagai Biopreservatif Telur Unggas [SKRIPSI]* Universitas Atma Jaya Yogyakarta: Yogyakarta
- Pesewu, GA, Quaynor EB., Olu-TMA., Anim BI., Asmah RH. 2018. Bacterial contaminants of raw broiler meat sold at Korle-Gonno, Accra, Ghana. *International Food Research Journal* 25(4): 1758-1762.
- Purdiyanto, J., Slamet R. 2018. Pengaruh lama Simpan Telur Itik Terhadap Penurunan Berat, Indeks Kuning Telur (Ikt), Dan Haughunit (Hu). *Maduranch Journal*, 3: 23-28
- Poonia S, Singh TS, Tsering DC. 2014. Profil kerentanan antibiotik dari bakteri yang diisolasi dari sumber air alami dari daerah pedesaan Sikkim Timur. *Indian J Community Med*, 39 (3): 156–160. doi: 10.4103 / 0970-0218.137152.
- Raji, A., Aliyu J., Igwebuike J., Chiroms. 2009. Effect Of Storage Method Sand Time On Egg Quality Traits Of Laying Hens In A Hot Dry Climate. *Arpn J Of Agric Biol Sci*, 4(4): 123-130.
- Rinzler, CA., 2009. *The New Complate Book Of Food: Nutrition, Medical And Culinary Guide 2nd Edition*. Facts On File, New York.
- Rozalski, A., Agnieszka T., Magdalena M., Iwona K., Agnieszka M., Kinga O., Dominika D., Agnieszka Z., Agata P., Małgorzata S., Paweł S. *Proteus Sp. – An Opportunistic Bacterial Pathogen – Classification, Swarming Growth, Clinical Significance And Virulence Factor*. *Folia Biologica Et Oecologica Journal*, 8: 1–17.
- Saleh, M., Fredine ESR., Standy S. 2015. Pola Bakteri Aerob Penyebab Infeksi Nosokomial Pada Ruangan Neonatal Intensive Care Unit (Nicu) Blu Rsup Prof. Dr. R. D Kandou Manado. *Jurnal E-Biomedik (Ebm)*, 3(1): 236-242

- Stadelman, WJ. 2000. *Eggs and Egg Products. Encyclopedia of Food Science and Technology* (2nd Edition). New York.
- Saraswati, D. 2012. *Uji Bakteri Salmonella Sp Pada Telur Bebek, Telur Puyuh Dan Telur Unggas Kampung Yang Diperdagangkan Di Pasar Liluwo Kota Gorontalo*. Gorontalo: Universitas Negeri Gorontalo.
- Schmidt, GS., Figueiredo ESM., Bomm Er. 2009. Effect Of Storage Period And Egg Weight On Embryo Development And Incubation Results. *Brazilian J Poult Sci*, 11(1):01-05.
- Setiaji, J., Thomas IJ., Meliya W.. 2015. Pengaruh Gliserol Pada Media Tryptic Soy Broth (Tsb) Terhadap Viabilitas Bakteri Aeromonas Hydrophila. *Jurnal Dinamika Pertanian*, Xxx : 83 - 91
- [SNI] Standar Nasional Indonesia. 2000. SNI 01-6366-2000. *Batas Maksimum Cemaran Mikroba pada Telur*. Jakarta: Badan Standardisasi Nasional.
- Srigandono, B. 1986. *Ilmu Unggas Air*. Yogyakarta: Gadjah Mada University Press.
- Suhara, A. 2004. *Kualitas Telur Itik yang Beredar Di Pasar Tradisional Dan Swalayan Di Jakarta Selatan [SKRIPSI]*. Bogor: Institut Pertanian Bogor.
- Suthar S, Chhimpa V, Singh S. 2009. Kontaminasi bakteri dalam air minum: studi kasus di daerah pedesaan di Rajasthan utara, India. *Penilaian Lingkungan Monit*, 159: 43–50. doi: 10.1007 / s10661-008-0611-0.
- Uno, Wd. 2007. Jumlah Bakteri Pada Telur Unggas Ras Yang Disimpan Pada Suhu Refrigerator. *Matsains*, 1(4):1-9.
- Varo, O., Allen KJ., Bennett DC., Mesak LR., Scaman CH. 2013. Purification and characterization of tinamou egg white ovotransferrin as an antimicrobial agent against foodborne pathogenic bacteria. *Food Res Int*, 54:18361842.
- Wijaya, VP. 2013. Daya Antibakteri Albumen Telur Unggas Kampung (Gallus Domesticus) Dan Unggas Kate (Gallus Bantam) Terhadap Spesies Bakteri Coliform Fekal Pada Cangkang Telur. Universitas Negeri Malang: Malang. *Jurnal Pendidikan Sains*, 1(4) : 365-374.
- Waluyo, L. 2007. *Mikrobiologi Umum*. Upt Penerbit Umm : Malang.
- Winarno, F.G., Koswara S. 2002. *Telur : Komposisi, Penanganan Dan Pengolahannya*. Bogor : M-Brio Press.
- Winsor, DK., Bloebaum AP., Mathewson JJ. 1981. Gram-Negative, Aerobic, Enteric Pathogens Among Intestinal Microflora Of Wild Turkey Vultures (Cathartes Aura) In West Central Texas. *Appl Environ Microbiol*, 42(6):1123–1124
- Wu, J., Acero LA. 2012. Ovotransferrin: structure, bioactivities, and preparation. *Food Res Int* 46: 480–487.
- Yunus, R., Ruth M., Rosnani. 2017. Cemaran Bakteri Gram Negatif Pada Jajanan Siomay Di Kota Kendari. *Medical Laboratory Technology Journal*, 3(1):87-9
- Zimbro, MJ., Power DA., Miller SM, Wilson GE., Johnson JA. 2009. *Difco and BBL Manual of Microbiology Culture Media. United States* (ISBN 0-9727207-1-5): Becton, Dickinson and Company. Ed. Ke-2.

LAMPIRAN 1

LAMPIRAN

Alur Penelitian



LAMPIRAN 2 Data Pertumbuhan Koloni Bakteri

2.1. Tabel Data Pasar PBB (Kecamatan Tamalate)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	235	279	98	183	291	273	255	274	271	200	219	171
	10 ⁻⁴	271	308	211	92	314	297	269	300	169	147	223	301
	10 ⁻⁵	113	97	431	19	203	257	240	281	289	305	189	205
	10 ⁻⁵	60	101	242	24	261	301	308	275	203	257	205	153

2.2. Tabel Data Pasar TRG (Kecamatan Bontoala)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	337	208	44	79	104	299	241	101	214	219	224	151
	10 ⁻⁴	116	184	5	31	114	224	108	0	0	79	93	92
	10 ⁻⁵	126	140	42	60	87	201	131	103	135	189	195	234
	10 ⁻⁵	83	122	34	40	4	296	43	52	0	65	124	136

2.3. Tabel Data Pasar DYB (Kecamatan Biringkanaya)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	62	50	50	43	34	62	52	56	79	82	81	63
	10 ⁻⁴	48	30	49	70	49	56	38	28	54	46	77	98
	10 ⁻⁵	79	29	33	26	57	22	33	44	66	39	92	63
	10 ⁻⁵	56	32	34	19	25	35	61	27	81	50	53	27

2.1. Tabel Data Pasar MDY (Kecamatan Manday)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	1000	0	154	169	30	10	42	13	6	141	13	9
	10 ⁻⁴	0	0	229	153	36	19	40	10	10	126	20	12
	10 ⁻⁵	496	839	18	170	11	14	32	8	6	17	9	2
	10 ⁻⁵	469	766	51	151	16	4	37	6	4	59	14	3

2.2. Tabel Data Pasar SJW (Kecamatan Mariso)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	103	102	112	128	126	192	180	1000	260	176	1000	124
	10 ⁻⁴	0	27	110	74	162	214	208	224	78	130	142	1000
	10 ⁻⁵	16	12	94	84	82	136	31	0	30	18	82	52
	10 ⁻⁵	0	6	20	66	48	150	10	32	58	18	38	56

2.3. Tabel Data Pasar MCY (Kecamatan Ujung Pandang)

No.	Pengenceran	Cangkang				Putih				Kuning			
		1	2	3	4	1	2	3	4	1	2	3	4
1	10 ⁻⁴	95	13	68	143	53	514	3	44	0	629	1	25
	10 ⁻⁴	116	26	29	104	33	392	0	62	0	527	1	10
	10 ⁻⁵	30	5	28	26	24	154	1	25	721	19	1	2
	10 ⁻⁵	41	8	11	39	17	14	0	30	629	37	0	5

LAMPIRAN 3 Perhitungan Koloni Bakteri dengan Metode TPC

3.1. Tabel Data Pasar PBB (Kecamatan Tamalate)

Pengenceran	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10 ⁻⁴	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 253$ $= \frac{253}{10^{-4}}$ $= 2,53 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 293,5$ $= \frac{293,5}{10^{-4}}$ $= 2,53 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 154,5$ $= \frac{154,5}{10^{-4}}$ $= 1,545 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 137,5$ $= \frac{137,5}{10^{-4}}$ $= 1,375 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 302,5$ $= \frac{302,5}{10^{-4}}$ $= 3,025 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 285$ $= \frac{285}{10^{-4}}$ $= 2,85 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 262$ $= \frac{262}{10^{-4}}$ $= 2,62 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 287$ $= \frac{287}{10^{-4}}$ $= 2,87 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 350,5$ $= \frac{350,5}{10^{-4}}$ $= 3,51 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 173,5$ $= \frac{173,5}{10^{-4}}$ $= 1,74 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 221$ $= \frac{221}{10^{-4}}$ $= 2,21 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 236$ $= \frac{236}{10^{-4}}$ $= 2,36 \times 10^6$
10 ⁻⁵	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 86,5$ $= \frac{86,5}{10^{-5}}$ $= 8,65 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 99$ $= \frac{99}{10^{-5}}$ $= 9,9 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 336,5$ $= \frac{336,5}{10^{-5}}$ $= 3,365 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 21,5$ $= \frac{21,5}{10^{-5}}$ $= 2,15 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 232$ $= \frac{232}{10^{-5}}$ $= 2,32 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 279$ $= \frac{279}{10^{-5}}$ $= 2,79 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 274$ $= \frac{274}{10^{-5}}$ $= 2,74 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 278$ $= \frac{278}{10^{-5}}$ $= 2,78 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 246$ $= \frac{246}{10^{-5}}$ $= 2,46 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 281$ $= \frac{281}{10^{-5}}$ $= 2,81 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 197$ $= \frac{197}{10^{-5}}$ $= 1,97 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 179$ $= \frac{179}{10^{-5}}$ $= 1,79 \times 10^7$

3.2. Tabel Data Pasar TRG (Kecamatan Bontoala)

Pengenceran	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10 ⁻⁴	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 226,5$ $= \frac{226,5}{10^{-4}}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 196$ $= \frac{196}{10^{-4}}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 24,5$ $= \frac{24,5}{10^{-4}}$ $= 2,45 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 55$ $= \frac{55}{10^{-4}}$ $= 5,5 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 109$ $= \frac{109}{10^{-4}}$ $= 1,09 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 260$ $= \frac{260}{10^{-4}}$ $= 2,60 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 174,5$ $= \frac{174,5}{10^{-4}}$ $= 1,745 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 50,5$ $= \frac{50,5}{10^{-4}}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 1,07$ $= \frac{1,07}{10^{-4}}$ $= 1,07 \times 10^4$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 149$ $= \frac{149}{10^{-4}}$ $= 1,49 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 158,5$ $= \frac{158,5}{10^{-4}}$ $= 1,58 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 121,5$ $= \frac{121,5}{10^{-4}}$ $= 1,21 \times 10^6$

	$= 2,265 \times 10^6$	$= 1,96 \times 10^6$						$= 5,05 \times 10^5$				
10^{-5}	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 104,5$ $= \frac{104,5}{10^{-5}}$ $= 1,045 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 131$ $= \frac{131}{10^{-5}}$ $= 1,31 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 38$ $= \frac{38}{10^{-5}}$ $= 3,8 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 50$ $= \frac{50}{10^{-5}}$ $= 5 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 45,5$ $= \frac{45,5}{10^{-5}}$ $= 4,55 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 248,5$ $= \frac{248,5}{10^{-5}}$ $= 2,485 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 87$ $= \frac{87}{10^{-5}}$ $= 8,7 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 77,5$ $= \frac{77,5}{10^{-5}}$ $= 7,75 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 67,5$ $= \frac{67,5}{10^{-5}}$ $= 6,75 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 127$ $= \frac{127}{10^{-5}}$ $= 1,27 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 159,5$ $= \frac{159,5}{10^{-5}}$ $= 1,59 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 185$ $= \frac{185}{10^{-5}}$ $= 1,85 \times 10^7$

3.3. Tabel Data Pasar DYB (Kecamatan Biringkanaya)

Peng enceran	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10^{-4}	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 55$ $= \frac{55}{10^{-4}}$ $= 5,5 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 43$ $= \frac{43}{10^{-4}}$ $= 4,3 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 49,5$ $= \frac{49,5}{10^{-4}}$ $= 4,95 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 56,5$ $= \frac{56,5}{10^{-4}}$ $= 5,65 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 41,5$ $= \frac{41,5}{10^{-4}}$ $= 4,15 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 59$ $= \frac{59}{10^{-4}}$ $= 5,9 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 287$ $= \frac{287}{10^{-4}}$ $= 2,87 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 45$ $= \frac{45}{10^{-4}}$ $= 4,5 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 41,5$ $= \frac{41,5}{10^{-4}}$ $= 4,15 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 64$ $= \frac{64}{10^{-4}}$ $= 6,4 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 45$ $= \frac{45}{10^{-4}}$ $= 4,5 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 80,5$ $= \frac{80,5}{10^{-4}}$ $= 8,05 \times 10^5$
10^{-5}	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 67,5$ $= \frac{67,5}{10^{-5}}$ $= 6,75 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 30,5$ $= \frac{30,5}{10^{-5}}$ $= 3,05 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 33,5$ $= \frac{33,5}{10^{-5}}$ $= 3,35 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 22,5$ $= \frac{22,5}{10^{-5}}$ $= 2,25 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 41$ $= \frac{41}{10^{-5}}$ $= 4,1 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 28,5$ $= \frac{28,5}{10^{-5}}$ $= 2,85 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 278$ $= \frac{278}{10^{-5}}$ $= 2,78 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 47$ $= \frac{47}{10^{-5}}$ $= 4,7 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 41$ $= \frac{41}{10^{-5}}$ $= 4,1 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 44,5$ $= \frac{44,5}{10^{-5}}$ $= 4,45 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 47$ $= \frac{47}{10^{-5}}$ $= 4,7 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 45$ $= \frac{45}{10^{-5}}$ $= 4,5 \times 10^6$

3.4. Tabel Data Pasar MDY (Kecamatan Manday).

Peng encera n	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10 ⁻⁴	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 500 = \frac{500}{10^{-4}} = 5 \times 10^6$	0	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 191,5 = \frac{191,5}{10^{-4}} = 1,915 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 161 = \frac{161}{10^{-4}} = 1,61 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 33 = \frac{33}{10^{-4}} = 3,3 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 14,5 = \frac{14,5}{10^{-4}} = 1,45 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 41 = \frac{41}{10^{-4}} = 4,1 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 11,5 = \frac{11,5}{10^{-4}} = 1,15 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 8 = \frac{8}{10^{-4}} = 8 \times 10^4$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 133,5 = \frac{133,5}{10^{-4}} = 1,335 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 16,5 = \frac{16,5}{10^{-4}} = 1,65 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 10,5 = \frac{10,5}{10^{-4}} = 1,05 \times 10^5$
10 ⁻⁵	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 482,5 = \frac{482,5}{10^{-5}} = 4,825 \times 10^7$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 802,5 = \frac{802,5}{10^{-5}} = 8,025 \times 10^7$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 34,5 = \frac{34,5}{10^{-5}} = 3,45 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 160,5 = \frac{160,5}{10^{-5}} = 1,605 \times 10^7$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 13,5 = \frac{13,5}{10^{-5}} = 1,35 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 9 = \frac{9}{10^{-5}} = 9 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 34,5 = \frac{34,5}{10^{-5}} = 3,45 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 7 = \frac{7}{10^{-5}} = 7 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 5 = \frac{5}{10^{-5}} = 5 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 38 = \frac{38}{10^{-5}} = 3,8 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 11,5 = \frac{11,5}{10^{-5}} = 1,15 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-5}} \times 2,5 = \frac{2,5}{10^{-5}} = 2,5 \times 10^5$

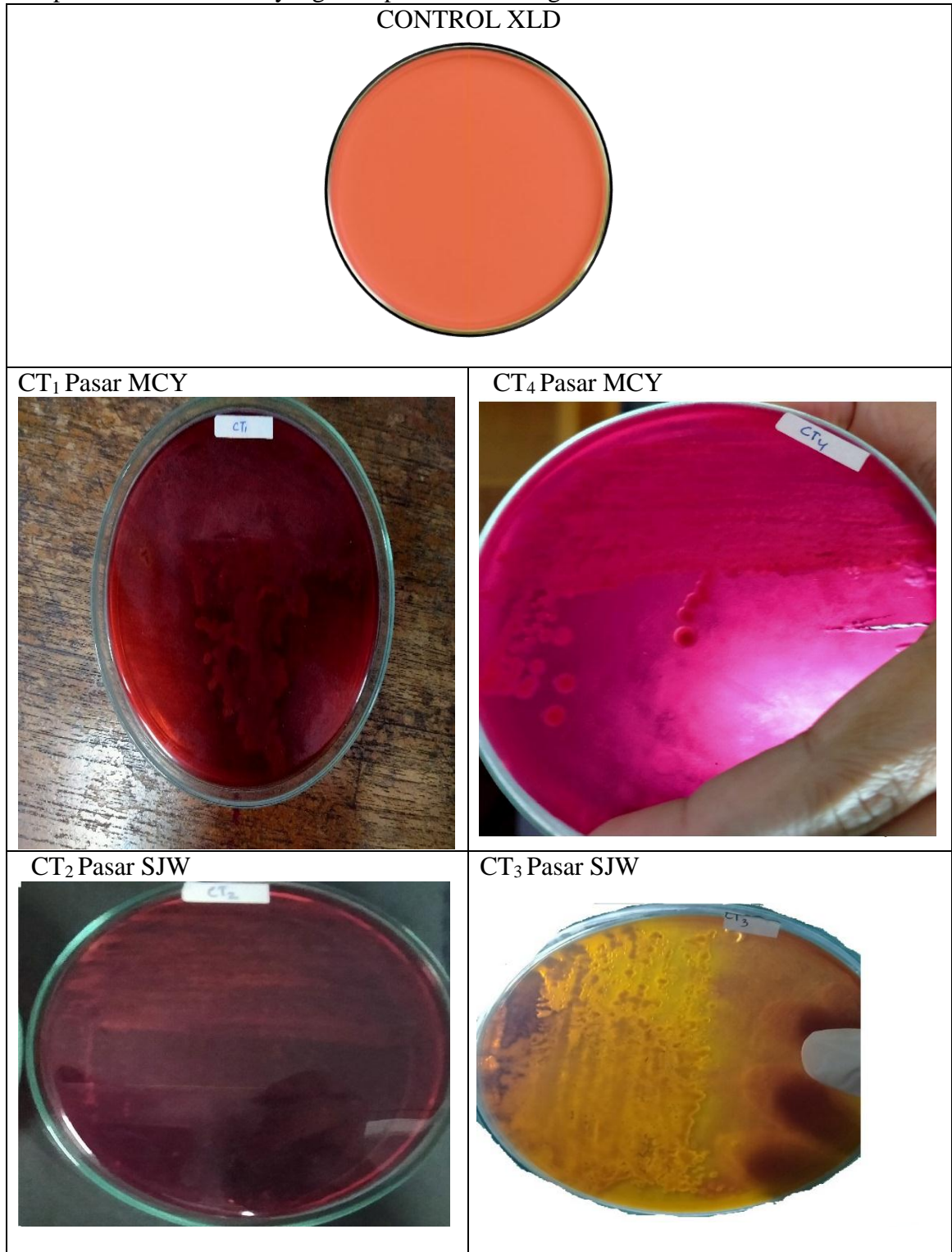
3.5. Tabel Data Pasar SJW (Kecamatan Mariso)

Peng Encera n	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10 ⁻⁴	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 51,5 = \frac{51,5}{10^{-4}} = 5,15 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 64,5 = \frac{64,5}{10^{-4}} = 6,45 \times 10^5$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 111 = \frac{111}{10^{-4}} = 1,11 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 101 = \frac{101}{10^{-4}} = 1,01 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 144 = \frac{144}{10^{-4}} = 1,44 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 203 = \frac{203}{10^{-4}} = 2,03 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 194 = \frac{194}{10^{-4}} = 1,94 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 612 = \frac{612}{10^{-4}} = 6,12 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 169 = \frac{169}{10^{-4}} = 1,69 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 153 = \frac{153}{10^{-4}} = 1,53 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 571 = \frac{571}{10^{-4}} = 5,71 \times 10^6$	$\frac{1}{\text{pengenceran } \bar{X}N} \times \frac{1}{10^{-4}} \times 562 = \frac{562}{10^{-4}} = 5,62 \times 10^6$

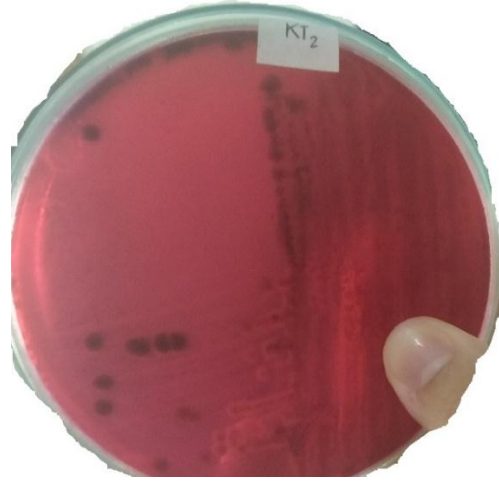
10 ⁻⁵	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$
	$\frac{1}{10^{-5}} \times 8$ $= \frac{8}{10^{-5}}$ $= 8 \times 10^5$	$\frac{1}{10^{-5}} \times 9$ $= \frac{9}{10^{-5}}$ $= 9 \times 10^5$	$\frac{1}{10^{-5}} \times 57$ $= \frac{57}{10^{-5}}$ $= 5,7 \times 10^6$	$\frac{1}{10^{-5}} \times 75$ $= \frac{75}{10^{-5}}$ $= 7,5 \times 10^6$	$\frac{1}{10^{-5}} \times 65$ $= \frac{6,5}{10^{-5}}$ $= 6,5 \times 10^6$	$\frac{1}{10^{-5}} \times 143$ $= \frac{143}{10^{-5}}$ $= 1,43 \times 10^7$	$\frac{1}{10^{-5}} \times 20,5$ $= \frac{20,5}{10^{-5}}$ $= 2,05 \times 10^6$	$\frac{1}{10^{-5}} \times 19$ $= \frac{19}{10^{-5}}$ $= 1,9 \times 10^6$	$\frac{1}{10^{-5}} \times 44$ $= \frac{44}{10^{-5}}$ $= 4,4 \times 10^6$	$\frac{1}{10^{-5}} \times 18$ $= \frac{18}{10^{-5}}$ $= 1,8 \times 10^6$	$\frac{1}{10^{-5}} \times 60$ $= \frac{60}{10^{-5}}$ $= 6 \times 10^6$	$\frac{1}{10^{-5}} \times 54$ $= \frac{54}{10^{-5}}$ $= 5,4 \times 10^6$

3.6. Tabel Data Pasar MCY (Kecamatan Ujung Pandang)

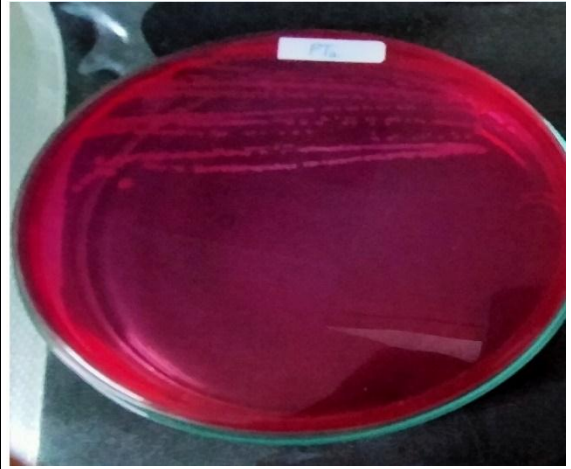
Pengenceran	Cangkang				Putih				Kuning			
	1	2	3	4	1	2	3	4	1	2	3	4
10 ⁻⁴	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 105,5$ $= \frac{105,5}{10^{-4}}$ $= 1,055 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 19,5$ $= \frac{19,5}{10^{-4}}$ $= 1,95 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 48,5$ $= \frac{48,5}{10^{-4}}$ $= 4,85 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 123,5$ $= \frac{123,5}{10^{-4}}$ $= 1,235 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 43$ $= \frac{43}{10^{-4}}$ $= 4,3 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 453$ $= \frac{453}{10^{-4}}$ $= 4,53 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 1,5$ $= \frac{1,5}{10^{-4}}$ $= 1,5 \times 10^4$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 53$ $= \frac{53}{10^{-4}}$ $= 5,3 \times 10^5$	0	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 578$ $= \frac{578}{10^{-4}}$ $= 5,78 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 1$ $= \frac{1}{10^{-4}}$ $= 1 \times 10^4$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-4}} \times 17,5$ $= \frac{17,5}{10^{-4}}$ $= 1,75 \times 10^5$
10 ⁻⁵	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 35,5$ $= \frac{35,5}{10^{-5}}$ $= 3,55 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 6,5$ $= \frac{6,5}{10^{-5}}$ $= 6,5 \times 10^5$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 19,5$ $= \frac{19,5}{10^{-5}}$ $= 1,95 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 32,5$ $= \frac{32,5}{10^{-5}}$ $= 3,25 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 20,5$ $= \frac{20,5}{10^{-5}}$ $= 2,05 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 84$ $= \frac{84}{10^{-5}}$ $= 8,4 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 0,5$ $= \frac{0,5}{10^{-5}}$ $= 5 \times 10^4$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 27,5$ $= \frac{27,5}{10^{-5}}$ $= 2,75 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 675$ $= \frac{675}{10^{-5}}$ $= 6,75 \times 10^7$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 28$ $= \frac{28}{10^{-5}}$ $= 2,8 \times 10^6$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 0,5$ $= \frac{0,5}{10^{-5}}$ $= 5 \times 10^4$	$\frac{1}{\text{pengenceran}} \times \frac{1}{\bar{X}N}$ $\frac{1}{10^{-5}} \times 35$ $= \frac{35}{10^{-5}}$ $= 3,5 \times 10^6$

Lampiran 4. Media XLD yang terdapat *Proteus Vulgaris*

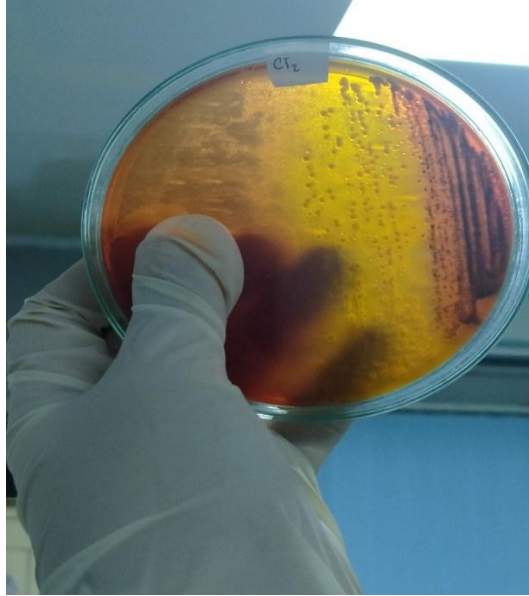
KT₂ Pasar SJW



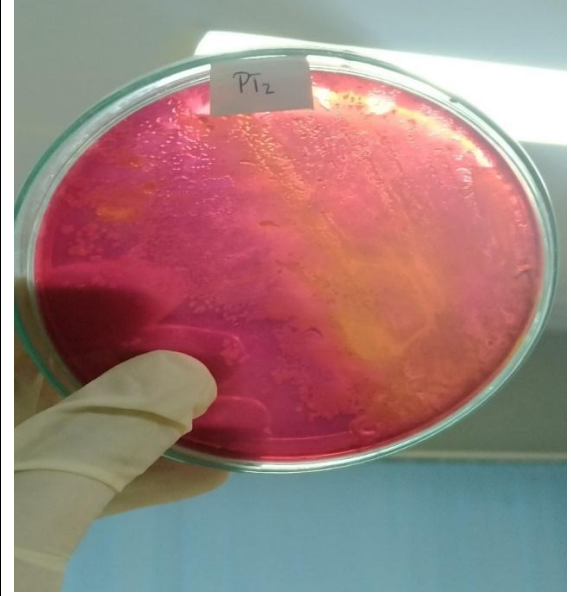
PT₂ Pasar SJW



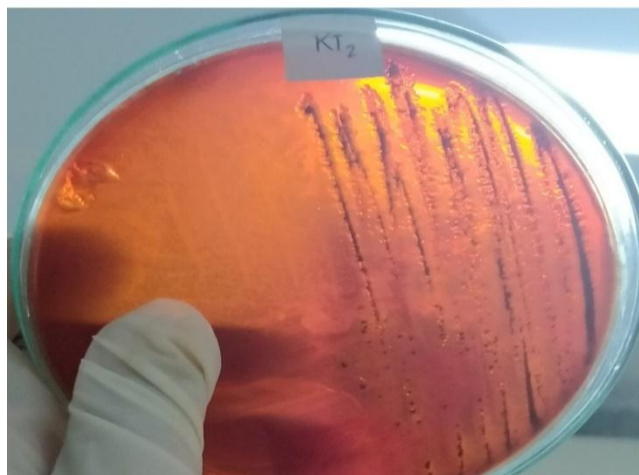
CT₂ Pasar MDY



PT₂ Pasar MDY



KT₂ Pasar MDY



LAMPIRAN 5. Dokumentasi Penelitian

Sampel Telur Itik



Persiapan Alat



Pengenceran sampel



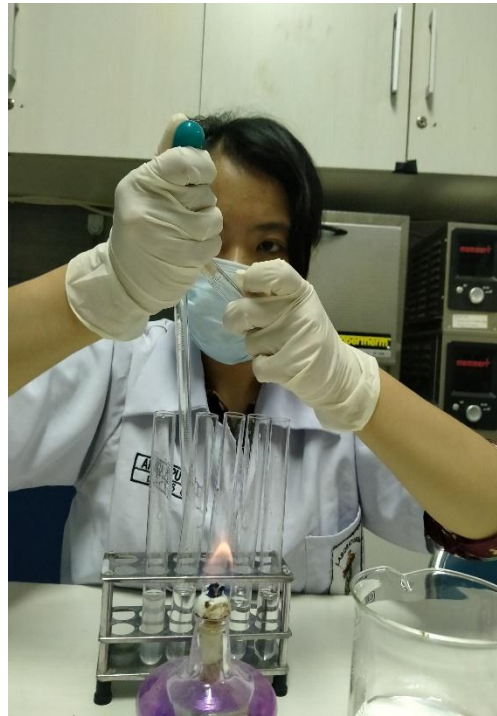
Pembuatan Media NA



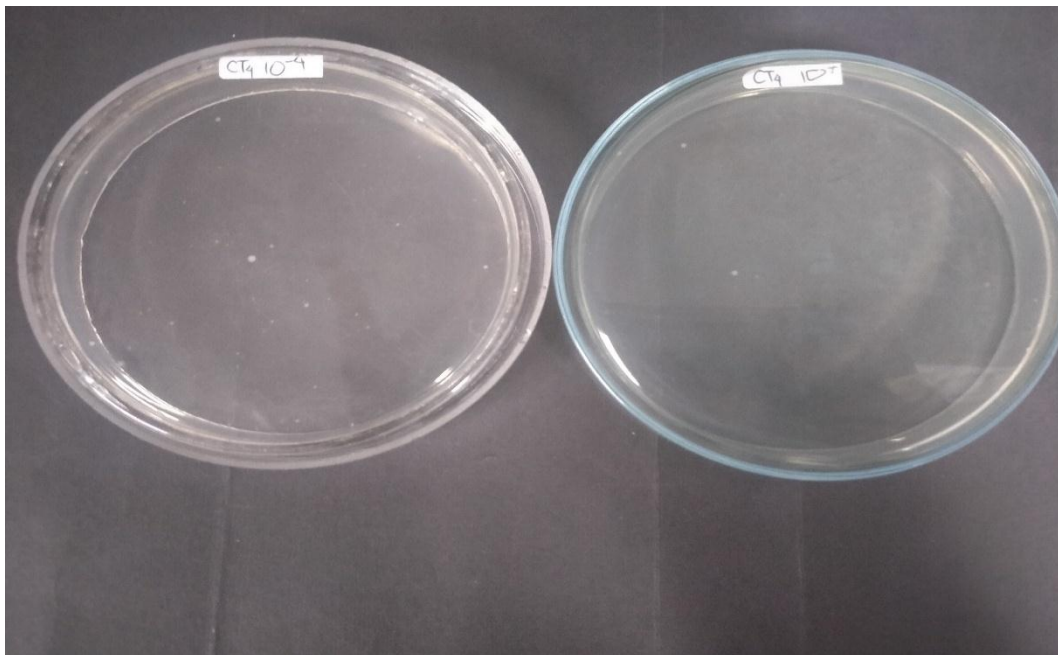
Inokulasi sampel pada Media



Media TSB



Inokulasi Sampel pada Media TSB



Perhitungan Koloni



Pembuatan Media XLD



Metode streak (gores) pada media XLD