

DMC – Farm Rembun 2022



INFORMASI TRIAL

Objective trial : > Mengetahui penyerapan asam butirat dapat mencapai hingga usus

bagian belakang (ileum)

> Pengganti AGP di pakan prestarter

Jenis ayam : Broiler

Lokasi : Farm Rembun

Durasi trial : 0 - 16 hari

Kelompok : 1A: Trial - ButiPEARL

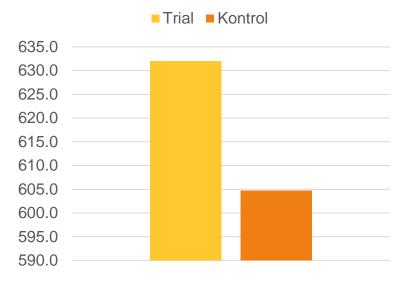
1B: Kontrol - AGP

Sampling histopath : Umur 9 hari



HASIL HISTOPATH





Panjang Vili Ileum



Bagian Usus	Rataan Panjang Vili Usus (µm)*			Rataan Panjang Usus**		
	Trial	Kontrol	Gap	Trial	Kontrol	
Jejunum	632.0	604.7	27.3	108	112	
lleum	392.2	353.2	39.0	106	112	

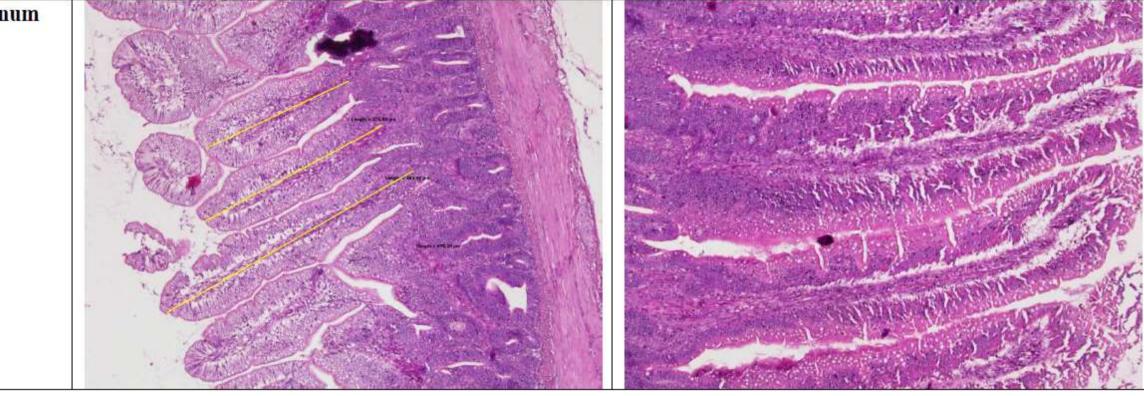
*: pengukuran dari 5 LP

**: jumlah sampel 3 ekor ayam



HASIL HISTOPATH

Jejunum

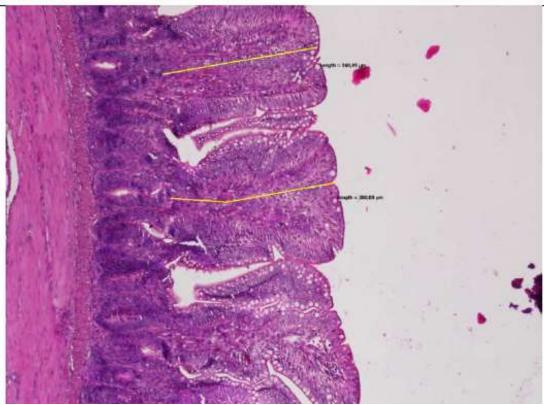




HASIL HISTOPATH

Ileum







HASIL PERFORMANCE

Ket	Body W	Veight (g)	Feed I	ntake (g)	Depl	esi (%)	F	CR	I	Р
Umur	1A (trial)	1B (kontrol)								
0-7	183	181	42.67	42.85	0.14	0.17	1.049	1.065	306.244	301.734
0-16	590	590	66.6	66.91	0.87	0.85	1.204	1.222	249.213	106.219



SUMMARY

- ✓ Pemberian asam butirat (ButiPEARL™)bisa mencapai hingga usus bagian belakang yang ditandai dengan panjang vili usus pada ileum lebih panjang daripada kontrol
- ✓ Performance ayam pada minggu pertama pada kelompok trial lebih baik dan hingga umur 16 hari FCR dan IP pada kelompok trial lebih baik daripada kelompok kontrol



HEAT STABILITY BUTIPEARL™

Background:

- ButiPEARL, batch number 2203115223 was obtained from KAA Finished Goods Warehouse (FGWH).
- Product heat stability was tested by subjecting the ButiPEARL product to heat condition as described in table 1 below.

Table 1: Sample information

Sample Description	Treatment Protocol
Control	Untreated sample from FGWH.
Heat treated	Pre-weight sample incubated in pressure cooker set at 90 – 95 Degree C with pressure at an estimate 30 psi*. Total heating time was 1 minutes and 30 seconds.

Note: Pressure 30 psi in pressure cooker was based on the estimation reference from https://www.seriouseats.com/how-pressure-cookers-work.

Results:

Table 2: Calcium Butvrate Recovery from ButiPEARL

Sample Description	Calcium Butyrate recovered (%)
Control sample	56
Stream and pressurized sample	56

Note: The minimum specification of Calcium Butyrate for ButiPEARL is 45%.

Summary:

- The calcium butyrate level recovered from both control and heated ButiPEARL was found to be the same at 56%
- This result indicated that ButiPEARL was very stable under steam and pressurized condition.

ButiPEARL™ stabil pada suhu panas (90 – 95° C)



TERIMA KASIH

