Trial Design: OZGROUP BLUEBERRY

- Harvest: 11 OCT 2017 WOOLGOOLGA NSW
- Set up Date: 13 OCT 2017 GOLD COAST QLD
- End Date: 11 DEC 2017 GOLD COAST QLD
- Duration: P + 59 DAYS
- 3 EVALUATIONS P+ 45, 52, 59 DAYS
- 2 EVALUATIONS Post Treatment
**AIM**: To determine if BIOPAC SOLUTIONS would EXTEND the Shelf-Life of Blueberry

**Methods**: 6 Treatments, 3 replicates for T1, 1 replicate for all other treatment

Storage cold room 0-2 D
Fruit pulp TEMP 2 D, optimum temp is 0 D

**T1**  BERRY GUARD + VENTED LINER
**T2** MAP BAG + SACHET (C2H4 FILTER)
**T3** MAP BAG
**T4** VENTED LINER
**T5** VENTED + SACHET (C2H4 FILTER)
**T6** CONTROL

First Evaluation: P+ 45 Days, P+ 52 Days, P+ 59 Days
Second Evaluation: Store for 7 days in Fridge, after removing treatment
Third Evaluation: Store for 2 days at Ambient Temp at 25-27D
SET UP DAY 1

T1 BERRY GUARD + VENTED LINER

T2 MAP BAG + SACHET
SET UP DAY 1

T3 MAP BAG

T4 VENTED LINER
SET UP DAY 1

T5 VENTED LINER + SACHET

T6 CONTROL
P+45 DAYS

T6 CONTROL

T6 CONTROL
P+45 DAYS

T5 VENTED LINER + SACHET

T5 VENTED LINER + SACHET
P+45 DAYS

T4 VENTED LINER

T4 VENTED LINER
P+45 DAYS
P+45 DAYS

T2 MAP BAG + SACHET

T2 MAP BAG + SACHET
P+45 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+45 DAYS + 7 DAYS

T6 CONTROL

T6 CONTROL
P+45 DAYS + 7 DAYS

T5 VENTED LINER + SACHET

T5 VENTED LINER + SACHET
P+45 DAYS + 7 DAYS

T4 VENTED LINER

T4 VENTED LINER
P+45 DAYS + 7 DAYS
P+45 DAYS + 7 DAYS
P+45 DAYS + 7 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT

T5 VENTED LINER + SACHET

T5 VENTED LINER + SACHET
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT

T4 VENTED LINER

T4 VENTED LINER
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT

T3 MAP BAG

T3 MAP BAG
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT
P+45 DAYS + 7 DAYS + 2 DAYS AT AMBIENT
P+52 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+52 DAYS
P+52 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+52 DAYS + 7 DAYS
P+52 DAYS + 7 DAYS+ 2 DAYS AT AMBIENT

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+52 DAYS + 7 DAYS + 2 DAYS AT AMBIENT

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+59 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+59 DAYS + 7 DAYS

T1 BERRY GUARD + VENTED LINER

T1 BERRY GUARD + VENTED LINER
P+59 DAYS + 7 DAYS

T6 CONTROL

T6 CONTROL
P+59 DAYS + 7 DAYS

T1 BERRY GUARD + VENTED LINER

T6 CONTROL
CONCLUSION

• Based on the results outlined above, it is evident that the T1 BERRY GUARD performed the best against all the other treatment.

• After P+ 45 days all the other treatment had very high, Unacceptable level of mould/rots/overripe fruit.

• The BERRY guard Hold very good quality fruit.

• P + 45 , 52 , 59 Days

• After + 7 days WITHOUT TREATMENT T1 BERRIES were in marketable stage.

• After +2 Days at Ambient Temp (25-27D) T1 BERRIES HAD NO MOULD.

• Firmness, sugar level and taste were of commercial level for T1 P+59 day.

• Pulp fruit Temp was 2 D, at Optimum Temp of O D, better result can be expected.