

EXPRESS[®] 3 & PULMO-GUARD[™] PHM-1 in High Risk Feedlot Calves

Key Points

EXPRESS[®] 3 & PULMO-GUARD[™] PHM-1 Show Significant Advantage over Bovi-Shield[®] 4 and One Shot[®]

- **Feeding advantages:** statistically significant ($p < 0.05$) differences found in favor of EXPRESS 3 & PULMO-GUARD PHM-1.
 - Slaughter weight
 - Weight gain
 - Carcass weight
 - Dry matter intake
 - Average daily gain

- **Health advantages:** statistically significant ($p < 0.05$) differences found in favor of EXPRESS 3 & PULMO-GUARD PHM-1. Each of the following were lower.
 - Initial BRD treatment
 - BRD mortality
 - Overall mortality
 - Overall chronics

Study Design

Investigator	Feedlot Health Management Services
Location	Okotoks, Alberta, Canada
Study animals	3,882 eight to 10 month old 635# to 653# steer and bull calves
Procedure	Castration, endectocide, growth implants, clostridials, H somnus
Group 1	1,942 calves vaccinated with EXPRESS 3 & PULMO-GUARD PHM-1
Group 2	1,940 calves vaccinated with Bovi-Shield 4 & One Shot

Performance Results

	EXPRESS 3 PULMO-GUARD PHM-1	Bovi-Shield 4 One Shot	P Value
Initial weight lbs	642.7	644.5	0.141
% steers	75.96	76.12	0.902
Slaughter weight lbs	1311.30	1295.40	0.009
Carcass weight lbs	806	795.6	0.008
ADG live weight lbs	2.93	2.82	0.008
ADG carcass weight lbs	3.09	2.97	0.004
Yield grade can 3 avg # head per pen	9.05	12.54	0.007
Daily dry matter intake lbs	18.67	18.25	0.008

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Health Results

	EXPRESS[®] 3 PULMO-GUARD[™] PHM-1	Bovi-Shield[®] 4 One Shot[®]	P Value
Initial BRD treatment %	16.84	21.44	<0.001
BRD mortality %	2.27	4.07	0.001
Overall mortality %	5.20	7.63	0.002
Overall chronics %	3.55	5.82	<0.001

The Bottom Line

- Considering the feeding advantage for average daily gain, dry matter intake, and slaughter weight there is a per head financial advantage of \$20.86 (CDN) for an **EXPRESS 3** and **PULMO-GUARD PHM-1** vaccination program.
- **EXPRESS 3** and **PULMO-GUARD PHM-1** cost is \$3.69 (CDN); the Bovi-Shield and One Shot program cost \$1.87 (CDN).
- Even though **EXPRESS 3** and **PULMO-GUARD PHM-1** cost an additional \$1.82 (CDN), the return on the additional cost is 11.5 to 1.