BRINGING A BIOCONTROL PRODUCT OR INOCULANT TO MARKET

BIOCONTROLS: 6 TO 10 YEARS / INOCULANTS: 4 TO 6 YEARS

WHY BIOTECHNOLOGY?

With biotechnology we can use helpful microorganisms to protect crops or make them grow better.



A **biological control** or (**biocontrol**) is a method of controlling pests such as insects, mites, weeds, and plant diseases using other organisms. **Inoculants** are microbes, like bacteria or fungi, that can help crop plants use nutrients more efficiently

The cost must be considered at each step. The Cost of Goods (COG), from production, formulation, quality control and packaging – must be kept at levels that farmers can afford. The acceptable COG depends on the value of the crop and the performance value of the product.



RESEARCH:

Biocontrols 2-4 years inoculants 1-3 years

IDENTIFY A

CANDIDATE

ORGANISM

THAT SHOWS

GREENHOUSE

AND FIFI D

PROMISE IN THE



CONFIRM IDENTIFICATION AND MODE OF ACTION OF THE ORGANISM

• IS THERE A PATENT FOR THE USE OF THE ORGANISM AS A BIOCONTROL OR INOCULANT?

• IS THE ORGANISM A HUMAN, ANIMAL OR PLANT PATHOGEN?

REGULATORY

Biocontrols 2-5 years Inoculants 1-2 years)

DETERMINE REGULATORY REQUIREMENTS

 CANADA - BIOCONTROL (PEST MANAGEMENT REGULATORY AGENCY) - INOCULANT (CFIA)
 USA - BIOCONTROL (US EPA)

 - INOCULANT (US EPA OR STATE REGULATORY AGENCIES)

SAFETY AND TOXICOLOGY
 EFFICACY



DETERMINE PRODUCTION METHOD

• DEVELOP A FORMULATION -STABLE AT ROOM TEMPERATURE SHELF LIFE OF AT LEAST ONE YEAR

CHECK THE APPLICATION RATE
USED IN THE TRIALS
 - IS IT COST EFFECTIVE?

- IS IT PRACTICAL?

5

FIELD TRIALS

Biocontrols 2-4 years Inoculants 2-3 years

 PLOT TRIALS IN AREAS WHERE PRODUCT WILL BE SOLD



MARKET STRATEGY

INITIATE PARTNER/ DISTRIBUTOR DISCUSSIONS TO DETERMINE GO-TO-MARKET STRATEGY





DEVELOP A QUALITY ASSURANCE SYSTEM

- ENSURE STOCK CULTURES ARE
 PRESERVED
- PRODUCT EFFICACY IS
 MAINTAINED
- DETERMINE RATIO OF ACTIVE INGREDIENT FOR EFFICACY
- DETERMINE CONTAMINATION
 TESTING



• USE INSTRUCTIONS (APPLICATION RATES, WATER RATES, WHEN TO APPLY, LIMITATIONS ETC.)

COMPATIBILITY DETAILS

 SHELF LIFE / EXPIRATION / STORAGE INSTRUCTIONS

