



# AGRO BUSINESS SYSTEM

## Module: ► Quality control and Laboratory management

- Covers the whole logistic flow through flexible defined protocols and sample taking process
- Protocols can be defined per crop, crop type or individual variety
- Quality normalization and classification allows accurate inventory management
- Laboratory planning through organized activity steps per determination method
- Full registration of all determination methods and used materials and equipment
- Up to date overview of result progress and status of the test
- Data collection on-line or through the use of handheld computers (RF or off-line data collection)

Quality test	1	2	Total	Score
Normal seedlings	18	18	36	7.50%
Abnormal seedlings	3	18	21	4.50%
Total germinated per replicate	21	36	57	12.00%
Total count per replicate	27	36	63	
Total ungerminated per replicate	6	0	6	1.00%
Germs per replicate	180	180	360	

The sample taking is a continuous and intensive process. In ABS this process is highly automated fully planned and easily monitored

The inventory sampling process handles the regular sample taking process (time based) and special sample taking process based on the expected shelf life of a batch.

Some of the testing activities are done by other organizations, like official government institutes or other laboratories. The results coming from these external tests are recorded in the system and handled as integrated quality information of the batch.

Every day many quality tests have to be executed. These tests are created automatically by the system. Every test is a combination of one or more activities. ABS makes planning of these activities very easy and effective for an optimal use of the available capacity.

The data entry can be recorded on-line or with the use of handheld computers and different techniques like RF or off-line data collection.

The Quality module includes all the operational quality activities for handling the samples coming from inventory, processing activities or third parties. The process of testing these samples in a laboratory, greenhouse or field environment and the process of calculating the results into correct and reliable quality figures, is completely automated. In ABS we have succeeded in defining a very flexible but controlled quality protocol which covers all of activities and can be very easily adapted to unexpected situations. For every process, the quality protocol defines the sample and determinations combinations that are relevant, dependant on the product, origin, etc



TSW/Seedcount	1	2	3	Calculated
Sample size	1.20	1.200	1.200	
Number	1.000000 g	1.000000 g	1.000000 g	
Quantity				
TSW	0.774 g	0.784 g	0.789 g	0.774 g
Seedcount	1,204,867 g	1,275,300 g	1,309,000 g	1,209,867 g
TSW	0.774 g	0	0	0
Seedcount for weight	1,204,867 g	0	0	0
Average per product	0.888 g			
Seedcount	1,393,333 g			
TSW	0.888 g			
Seedcount for weight	1,250,000 g			

