



ExcalibreTM

Encapsulated Inoculant
More life for your soybeans.

SPECIMEN LABEL

Net contents 1 pound (16 ounces) Inoculates 160 X 140k units of soybeans

PATENT PENDING



Excalibre™ Soybean Inoculant

Made in America for the World's Best Farmers!



COMMERCIAL TREATER APPLICATION RECOMMENDATIONS

EXCALIBRE SOYBEAN INOCULANT

1. Please refer to Excalibre Technical Sheet, included, for specific recommendations.

2. Fill the pre-mix tank with the appropriate amount of water to achieve desired coverage on the seed.

3. USE ONLY NON-CHLORINATED WATER.

4. Measure and apply Excalibre Soybean Inoculant at the rate of 0.1 ounces per 140k unit of seed. Please refer to the Excalibre Technical Sheet, included, for specific recommendations.

5. Pour measured amount of Excalibre Soybean Inoculant into premix tank liquid and apply to inoculate desired amount of soybean seed.

6. Use an approved polymer extender to achieve desired extended on-seed shelf life.

7. Maintain agitation.

EXCALIBRE SOYBEAN INOCULANT WITH FUNGICIDES AND EXTENDERS

1. Excalibre Soybean Inoculant may be used in combination with approved, commercially applied fungicides.

2. An approved polymer extender must be added to achieve an extended on-seed planting window.

3. For a complete list of compatible fungicides, instructions for use of approved polymer extenders, and recommended "days on-seed planting window," go to www.TreatYourBeans.com or call Advanced Biological Marketing at 1-877-617-2461.

RECOMMENDATIONS FOR ADVERSE CONDITIONS OR NEW "VIRGIN" SOYBEAN FIELD

If: Soil has not hosted the specific legume for more than 3 years; Soil pH is less than 5.8 (The pH should be adjusted by liming prior to inoculation); Soil organic matter is less than 1%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion has occurred; or When using seed or soil treatments or chemicals injurious to soil bacteria and inoculants.

TO MAXIMIZE YIELD POTENTIAL UNDER ANY OF THE CONDITIONS ABOVE, FOLLOW THESE RECOMMENDATIONS: Use a double (2X) rate of inoculant.

- Apply a 1X rate of Excalibre no more than 30 days prior to planting.
- Additionally, apply at planting, a 1X rate of an America's Best Inoculant formulation: ABI Sterile Peat, ABI Sterile Liquid, ABI MegaPack, or Graph-Ex.

LIMITED WARRANTY:

Advanced Biological Marketing guarantees the cultures in this package of Excalibre will inoculate the quantity and kind of seed specified on this package when:

- (1) Product is used prior to expiration date.
- (2) Product is stored properly.
- (3) Product is used under favorable soil and weather conditions.
- (4) Product is used in accordance with directions for use noted on this package.

All field performance complaints must be brought to the attention of Advanced Biological Marketing within seventy (70) days of planting. ADVANCED BIOLOGICAL MARKETING MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS, WARRANTY OF MERCHANT-ABILITY, OR WARRANTY FOR A PARTICULAR PURPOSE, OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. ADVANCED BIOLOGICAL MARKETING'S LIABILITY IS HEREBY EXPRESSLY LIMITED TO THE PURCHASE PRICE OF PRODUCT ONLY. IN NO EVENT SHALL ADVANCED BIOLOGICAL MARKETING OR ANY SELLER OF THIS PRODUCT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE USE OF HANDLING OF THIS PRODUCT.



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Please refer to the Excalibre Technical Sheet, included, for specific recommendations.

Excalibre™ Soybean Inoculant is a Trademark of Advanced Biological Marketing, Inc.

www.TreatYourBeans.com

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Excalibre is an innovative encapsulated soybean seed inoculant that contains a blend of three proprietary strains of bacteria—the same versatile package as is found in the industry-leading **America's Best Inoculant®** products. It has been developed and proven effective by the best scientists in Bradyrhizobia genetics. This new patented encapsulation technology is the first of its kind in agriculture and offers a safe, easy to use way to significantly increase crop yields. Excalibre is a highly concentrated product that offers efficiency, convenience and production benefits to the producer and seed treater alike.

Technical Information

Excalibre Package Size:	One foil pack contains 16 oz. (by weight)	Excalibre Formulation and Specification:	Dry powder 55.0 billion Rhizobia per gram
Excalibre Application Rate:	0.1 oz. (by weight) per 140,000 soybean seed	One Package Excalibre Treats:	160 x 140,000 soybean seed (Achieves seed loading rate of 1 million Rhizobia cells/seed)
Extender Pack Size	One pack contains 80 oz. (by volume)	Extender Formulation:	Starch-based liquid polymer
Extender Application Rate:	.5 oz. (by volume) per 140,000 soybean seed, Extender should always be mixed and applied with Excalibre	One Package Extender Treats:	160 x 140,000 soybean seed
Case Contains:	4 x 16 oz. packs per case Excalibre 4 x 80 oz. packs per case Extender	One Case Treats:	640 x 140,000 soybean seed
Applications:	Excalibre is a suspendable powder designed for use in a liquid tank mix in commercial seed treatment systems with good agitation to maintain product suspension. For good seed coverage, ABM generally recommends a minimum of 2.5 oz. liquid per 140,000 soybean seed, in any combination of non-chlorinated water and approved liquid seed treatments. Experienced seed treaters may choose to decrease the total volume applied. 1. Remove or replace screens. Maintain agitation at all times. (Contact ABM for recommendations). 2. Measure Excalibre by weight only. Please refer to "detailed mixing instructions" found on the reverse of this sheet 3. For best results do not apply with atomization and use separate mix tank for inoculant only		
Tank Mix Time Restrictions:	To maintain inoculants viability, there is a maximum time Excalibre can be kept in the mix tank: 1. Excalibre alone or with non-chlorinated water should be applied to seed within 24 hours. 2. With approved seed treatments, Excalibre should be applied to seed within 4 hours.		
Compatibility with Seed Treatments: <small>Trademarks of their Respective owners or manufactures</small>	Excalibre is tank-mix compatible with certain seed treatments and can be co-applied several days prior to planting. Follow these guidelines or refer to www.abm1st.com for a complete listing of approved products :		
	Excalibre and Extender only, or applied with Acceleron, ApronMaxx RFC, ApronMaxx RTA, CruiserMaxx Pak or Gaucho SB Flowable*	Plant within 120 days after treatment	
	Exalibre and Extender co-applied with: Trilex AL Flowable, Allegiance with Trilex FL*, Inovate System, Rancona, Senator	Plant within 90 days after treatment	
	Excalibre and Extender co-applied with: SoyGard* products.	Plant within 70 days after treatment	
New Soybean Ground or Adverse Crop Conditions	Recommendations for Adverse Conditions or New "Virgin" Soybean Fields – If soil has not hosted the specific legume for more than three (3) years; Soil pH is less than 5.8 (The pH should be adjusted by liming prior to inoculation); Soil pH is more than 8.5; Soil organic matter is less than 1%; Drought or flooding has occurred; Topsoil conditions exceed 80° F; Soil erosion, or with the use of soil treatments and chemicals injurious to soil bacteria and inoculants, to Maximize Soybean Yield Potential : When planting soybeans under the conditions listed above, ABM recommends a double (2X) rate of inoculants. Follow these recommendations. If using an Excalibre product, achieve a 2X inoculants rate as follows: a. Apply a 1X rate of Excalibre no more than 30 days prior to planting. b. Additionally, apply at planting, a 1X rate of an America's Best Inoculant formulation: ABI Sterile Peat, ABI Sterile Liquid, ABI MegaPack Please contact your ABM representative at 877-617-2461 for a specific recommendation.		

Excalibre, Graph-Ex, ABI Inoculants and ABI MegaPack are trademarks of ABM. America's Best Inoculant is registered trademark of ABM.

* Trademarks or Registered Trademarks of their respective owners, marketers or manufacturers.



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Detailed Mixing & Application Instructions

Excalibre Encapsulated Inoculant is a wettable powder combination containing a highly concentrated formulation of rhizobia, using of a small amount of product to achieve high active ingredient seed loading, while keeping the volume of seed-bridging liquid to a minimum.

Mixing order:

Best results are achieved when bucket slurring any needed water, adding Excalibre mixing completely then adding the extender polymer

- (1) Calculate batch quantities for all mix components
- (2) Measure and add liquids, to a mix container or treatment tank first.
- (3) Measure and add Excalibre powder to the mix container or treatment tank containing liquids/
- (4) Mix or stir contents in the container, only after powder has dispersed, add extender
- (5) Agitate and add to seed treater tank if in a separate container
- (6) Maintain agitation as long as Excalibre is in the treatment tank
- (7) Adhere to tank mix time restrictions listed in "Technical Information"

Measure Excalibre by weight: If an accurate scale is not available, contact your ABM representative or call 877-617-2461, and a scale will be supplied. (Alternatively, approximate volume equivalents are included on the batch sheet provided in the packaging.)

Extender Polymer: The extender polymer included with Excalibre is an integral part of the Excalibre system, and must be used in accordance with label in instructions for proper results.

Agitation: Excalibre is a highly dispersible wettable powder. Good mix tank agitation is necessary to maintain suspension. If the mix tank does not have agitation, ABM will easily and economically provide and install a **recirculation kit** to most popular treaters.

In-line Screens: Most typical-mesh in-line screens will require simple modification.

- (1) Remove line screens entirely
 - Take care to prevent soybean seed from entering the mix tank and plugging hoses.

Or:

- (2) Install 16 mesh screens. This size mesh will allow Excalibre to pass through
 - For screens, contact your ABM representative or call 877-617-2461. ABM will supply a replacement screen with cartridge at no charge. (Be sure to know your line diameter.)

Spray Nozzles: Excalibre suspension **will not** successfully flow through typical seed treater nozzles including flat fans. Avoid the use of a spray nozzle with Excalibre. ABM can easily and economically provide and install an alternative for most popular treaters spray nozzles.

Hose lines: Excalibre may settle out in hose lines with a combination of large diameter hoses and long hose length (for example, 20 feet of 1 inch diameter hose). If this occurs, shorten the hose length as is possible, and change the hose to a smaller diameter to increase the velocity of material flow. Recalibrate pump. Contact your ABM representative or call 877-617-2461 for tech support.



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