



345 LUCK AVENUE • ROANOKE, VIRGINIA • USA • 24016
 PO BOX 1523 • ROANOKE, VIRGINIA • USA • 24007
 540-344-6469 • 540-301-6451 FAX
www.americanbiosystems.com

PRODUCT SPECIFICATIONS SHEET

ACCELOBAC® 5020

Description: Specially formulated strains of Aerobic and Anaerobic Bacteria designed for COD reduction, NH₃ reduction and bioremediation applications. Cultures include multiple strains of Bacillus licheniformis, pumilus, subtilis, megaterium along with Phanaerochete, Trichoderma, Pseudomonas, Nitrobacter and other proprietary strains. Consists of specially formulated cultures which give high levels of amylase, protease, lipase and cellulase enzyme production.

Activity:	Total plate count	4 billion CFU/gram
	Cellulase	750 CU/gram
	Protease	1200 PC/gram
	Amylase	280 BAU/gram
	Lipase	50 FIP/gram

Unit Definition:

Bacterial Amylase - One bacterial amylase unit (BAU) is defined as that quantity of enzyme which will dextrinize one milligram of starch per minute at pH 6.6 and 30°C.

Cellulase - One cellulase unit (CU) is defined as the amount of activity that will produce a relative fluidity change of 1 in 5 minutes in a defined carboxymethyl cellulose substrate under the conditions of the assay (pH4.5 and 40°C).

Lipase- One unit of enzyme activity (FIP Unit) is defined as that quantity of a standard lipase preparation (Fungi Lipase-International FIP Standard) that liberates the equivalent of 1µmol of fatty acid per minute from the *Substrate Emulsion* under the described assay conditions.

Protease– One bacterial protease unit (PC) is defined as that quantity of enzyme that produces the equivalent of 1.5 mg per mL of L-tyrosine per minute under the conditions of the assay.

Application rates:

AREA	DOSAGE	TREATMENT
Contaminated soils	2 lbs. per cubic yard	Weekly
Lagoons	15-25 lb. per acre surface	Weekly
Municipal WWTP	25-50 lb. per MGD flow	Daily first week
	3-6 lb. per MGD flow	Maintenance
Sludge Digesters	2 lbs. per 2,000 cu. Ft.	Twice Weekly

Storage Conditions: For optimal activity store in cool dry place under 90°F. Standard shelf life under these conditions is 1 year.

Precautionary Statement: Do not breathe dust. Do not get on skin or clothing. Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Keep container closed and sealed until ready for use. Wash thoroughly after handling. Do not ingest.

Package Sizes: 25 kg. and 50 lb. boxes



345 LUCK AVENUE • ROANOKE, VIRGINIA • USA • 24016
PO BOX 1523 • ROANOKE, VIRGINIA • USA • 24007
540-344-6469 • 540-301-6451 FAX
www.americanbiosystems.com

MADE IN USA