

# AccuBLAST® Identification Report Guide

## Interpretation

Sample C1125190-20110621014 has a closest match of *Arthrobacter flavus* and links directly to it in the Neighbor Joining Tree. Both the sample sequence and its closest match have identical sequences in the first 500 base pair region of the 16S gene. The result is *Arthrobacter flavus*, with a Species level of confidence.

## Section Descriptions

**Accugenix**  
Identify with the Leader

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Newark, DE 19702  
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Fax +1.302.292.8468  
www.accugenix.com

**AccuBLAST® Identification Report**  
SOP-GEN-054

Customer: ① Accugenix  
Address: ② 223 Lake Dr. Newark, DE 19702  
Accugenix C#: ③ C1125190-20110621014  
Customer Sample ID: test run ④  
Data Files: ⑤ 20110621F.ab1 / 20110621R.ab1

Account: ⑥ 12345 ( ACC1 )  
ID Request Form #: 12345 ⑦  
Due Date: ⑧ 2011-08-21

Accugenix Database Search Result - AccuBLAST ⑨

Identification: **Arthrobacter flavus** ⑩  
Confidence Level: **Species** ⑪

**Sequence Alignment**

Alignment: 505 C1125190-20110621014

⑬			⑫
		0.00 %	505 Arthrobacter flavus
		2.18 %	504 Arthrobacter aurescens
		2.58 %	503 Arthrobacter nitroguajacolicus
		2.77 %	505 Arthrobacter subterraneus
		2.98 %	504 Arthrobacter tumbae
		3.17 %	505 Arthrobacter ilicis
		3.17 %	504 Arthrobacter parietis
		3.96 %	505 Arthrobacter methylotrophus
		3.98 %	503 Arthrobacter phenanthrenivorans
		4.18 %	502 Arthrobacter nicotinovorans

**Neighbor Joining Tree**

⑭ N Join: 1.580 %

⑮

- C1125190-20110621014
- Arthrobacter flavus
- Arthrobacter aurescens
- Arthrobacter nitroguajacolicus
- Arthrobacter ilicis
- Arthrobacter phenanthrenivorans
- Arthrobacter nicotinovorans
- Arthrobacter methylotrophus
- Arthrobacter subterraneus
- Arthrobacter tumbae
- Arthrobacter parietis

Not intended for in vitro diagnostic use.  
Prepared By Shiping Wu on 2011-06-22 09:05:22  
Reviewed By Emily Huang on 2011-06-22 09:07:39  
QA Approved By Mary E. Beard on 2011-06-22 09:15:08

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This document has been signed electronically by the individual(s) shown above, in compliance with FDA regulation CFR 21 Part 11.

1. Your company name
2. "Ship To" address from your Identification Request Form
3. Unique sample code (C#) assigned by Accugenix
4. Your sample ID, as provided on the Identification Request Form
5. The data file names as submitted by you for analysis
6. Your 5-digit Account #, followed by a 4-digit alpha-numeric code in ( )
7. Each ID Request Form received with samples has a unique number
8. The due date of your Identification Report
9. Test code for this sample, indicating AccuBLAST® sequence analysis
10. Final identification result
11. Confidence level of the identification (Species, Species\*, Genus, Family, Class, Order or No Match (for fungi only: the organism was sequenced successfully, but no Genus or Species level assignment could be confidently made based on our current ITS2 fungal library))
12. Your sample and the top 10 closest matches to the Accugenix sequence library
13. The result of the alignment represents the percent genetic difference, or # of nucleotide differences, between the unknown sample sequence and the library entry sequence

14. The 1.580% value is the length of the line next to it; similar to a legend on a map, it provides a horizontal distance scale for the Neighbor Joining Tree; the % value is somewhat arbitrary but falls between the % differences of the 1st and 10th closest matches

15. Neighbor Joining Tree – visually represents the genetic differences between your isolate and its 10 closest matches

16. Electronic signatures in compliance with FDA regulation CFR 21 Part 11