

Figure 1. The effect of the concentration of the *Agrobacterium* suspension on the transformation efficiency of *Agrobacterium* strains.

MISSION OBJECTIVE: The rescue and recovery of Taliant 03 Alpha, Major Robert Miller, pilot of an F-4. The SAR objective was located at VR 385045Z.

25-10

$$\begin{aligned} \frac{\partial}{\partial t} \left(\frac{1}{2} \rho \mathbf{u} \cdot \mathbf{u} \right) &= \frac{1}{2} \rho \frac{d}{dt} (\mathbf{u} \cdot \mathbf{u}) \\ &= \frac{1}{2} \rho \left(\mathbf{u} \cdot \frac{d\mathbf{u}}{dt} + \frac{d\mathbf{u}}{dt} \cdot \mathbf{u} \right) \\ &= \rho \mathbf{u} \cdot \frac{d\mathbf{u}}{dt} \end{aligned}$$

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...of the 12th. Just as the parachute reached the ground and the survivor
...in a very soldier stepped out with a rifle on the hill 50 feet above
...and killed him (him). The second photographer, who was in the door with the
...engineer, seeing the vulnerable position we were in, grabbed his M16 and
...dropped the gun. As the engineer started the parachute up with the survivor
...on it another soldier stepped out and the photog shot him also. At that
...point the engineer called for me to pull out and we did so with the survivor
...10 feet below the aircraft. As the aircraft moved forward the engineer and the
...photog pulled the survivor in the door. When the survivor was brought on board
...he was very weak and was placed on a stretcher inside the ch. He had a cut
...across his mouth caused by ejection and his legs were very sore from his life
...raft which had inflated while tangled in his harness. He was in shock and was
...treated for shock by the paramedic specialist. The Sandy began directing us
...to the other survivor and we executed a 180° turn and moved down the valley
...and 90° left into a box canyon. Just as we turned into it the J3 gunner saw
...gunfire and people coming from a small structure. He turned his mini gun fire
...into it and stopped their fire. We did a quick stop over the parachute which was
...where the survivor had said he was. The parachute was still in a small tree
...and very near a well traveled path. All observers and the pilot and copilot
...looked for the #2 survivor but he wasn't there. The helicopter was turned
...180° to put the nose back up the canyon to keep our exit route covered with
...our mini guns as we hovered around searching for the survivor. We called
...to the survivor on the radio using both the upper and lower antenna but to
...no avail. After we had hovered for approximately five minutes, we called
...the Sandy that we were going to have to come out because the survivor was
...not there. Once again we turned 180° and moved back down the valley, which
...was the only way out, and began a climb back to the holding area. On the run
...out we took 23mm fire from our 3 o'clock position and were again forced to go
...further left. We continued our climb to 12,000 feet to avoid ground fire and
...to avoid weather. King 27 immediately got us on radar and soon joined with us
...to give us enough fuel to get home. Both birds had dumped fuel prior to JO 52's
...run in. Jolly Green 56 also had additional fuel problems due to his fuel leak.
...His air refueling was completed and JO 52 and 56 pressed on home alone because
...the Sandy were to low on fuel to escort us. We arrived back at Channel 89 at
...1850 and declared an inflight emergency for JO 56 due to his battle damage.
...Both birds landed safely.

Areas of Importance

1. We had excellent support from Disco and King with their radar.
2. We had excellent coordination with King and had fuel waiting for us each time we needed it.
3. The survivor used his red smoke on the command from Sandy and made finding him for the Jolly very rapid.
4. We had the necessary MIG Cap which enabled us to stay high enough to avoid AAA and small arms until we reached the SAR area.

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2000 3 hours, 4.0 hours, 8.0 hours
 2001 4 hours, 10.0 hours
 2002 6 hours, 12.5 hours
 2003 1 hour, 7.7 hours
 2004 7 hours, 31.0 hours
 2005 2 hours, 6.0 hours
 2006 6 hours, 21.5 hours
 2007 5 hours, 10.0 hours

Order 52 (Low)

b6
b7C

1 - Mr. George H. Small,
1 - Mr. Stephen R. Connolly,
1 - Mr. Harry M. Sanders,
1 - Mr. Michael L. Miller,
1 - Mr. Martin T. Monickel,
1 - Mr. Dennis L. McIlwain,

Doc: 55 (12/5)

1 - Capt Stanley E. McManis, Jr.,
2 - 1st Richard E. Gump,
3 - 1st James F. Walsh,
4 - 1st Charles E. Salomo,
5 - 1st Roger D. Conhill,
6 - 1st Robert A. Alexander,

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