



1
00:00:00,000 --> 00:00:05,370
how much would you pack for a trip to
Mars astronauts will need a lot of stuff

2
00:00:05,370 --> 00:00:08,970
to survive the long journey there and
back but with current technology it

3
00:00:08,970 --> 00:00:13,620
would take way too much space
scientists at NASA's Ames Research

4
00:00:13,620 --> 00:00:18,300
Center in Silicon Valley are on the case
they're studying special bacteria called

5
00:00:18,300 --> 00:00:22,830
exoelectrogens that might be able to
help these bacteria can generate

6
00:00:22,830 --> 00:00:27,330
electricity in tiny wires they grow out
of their cells this makes them really

7
00:00:27,330 --> 00:00:31,650
handy because with some clever
engineering they could be used to clean

8
00:00:31,650 --> 00:00:36,120
water and produce energy and supplies
that astronauts need but scientists

9
00:00:36,120 --> 00:00:39,840
don't know how well they grow in space
or if they can do all their cool tricks up

10
00:00:39,840 --> 00:00:44,550
there to find out they're sending some
of these electricity-producing bacteria

11

00:00:44,550 --> 00:00:48,539

to the international space station where they'll be grown and tested in many

12

00:00:48,539 --> 00:00:52,110

different conditions the data the
scientists get back will help lay the

13

00:00:52,110 --> 00:00:56,010

groundwork for future better
life-support systems and the first