

Sensuality examination of space insect food - MDRS Crew 137 Team NIPPON -

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Purpose:

When we think about emigration to Mars, it is important that we build a life-support system. It is essential to establish the technique of a food production and the food storage in a spaceship in particular and the space station. To that end, choice and the processing technique of ingredients are necessary on the space foods (by-product, high value of nutrition, high unit harvest). The consumption of the insect food by much population (many different countries) is promoted even if it is on the earth. Therefore the use of the space foods of the insect is the means that is necessary in securing of food. Because we applied it at closed colony facilities (MDRS), we report that.

Method

We offered the meal using the insect in 2-week closed colony facilities (MDRS Crew 137 Team NIPPON) and performed a sensuality examination. Four different kinds of insect which we used "silkworm pupa boiled in soy source" "baby bee boiled in soy source" "grasshopper boiled in soy source" "seal insect boiled in soy source". The subject (three male and three female) filled out a writing by oneself expression questionnaire about "taste" "incense" "appearance" "quantity" "general score" at ten points of perfect scores.

Result

All six people ate all the insects and performed a sensuality examination. The subject answered for the impression that ate an insect. "I can eat if I do not watch shape of insects" "The subject answered about the taste that ate an insect. "It was salty-sweet taste and the taste was delicious"

Conclusion

If an insect becomes the powder, it is easy to eat more. If an insect becomes the powder, we can cook it with other foods as protein. We want to use more insects as space foods in future.

Keywords: space foods, insects, MDRS