

# Conflicts surrounding the sale of \$ 30 bath water bottles and interesting questions about DNA

The star social network Belle Delphine sells ... her own bath water. A small palm jar costs \$ 30.

If you wander through some entertainment sites, gossip, both domestically and internationally, it's probably not hard to see the odd but equally entertaining story of last week as the case. star of social network star Belle Delphine. In particular, this famous 'virtual living' girl in the world has advertised for sale . her own bath water, a palm-sized bottle for \$ 30, and the interesting thing is that the fans of she enthusiastically supported.

The incident will be nothing more to say if the people of the 'school' are skeptical not to ask a big question about whether to give a bath to the fans is really Belle Delphine? If so, what do you have to prove and if not, should this girl be punished with the act of fraud, 'selling fake goods'?

1. Successfully compressed 16GB of Wikipedia text data into DNA strings



*Star of social network Belle Delphine*

Questions on Europe are also reasonably reasonable because this item is not cheap, it costs up to 30 USD and consumers naturally have the right to ask questions about product quality. To solve this problem, a member of Reddit devised a plan to send the bath water sample he bought to the lab to try to analyze the DNA to see if it was "genuine". As soon as the results came out, the member posted a message saying that the 30-dollar bath he bought didn't contain human DNA - and so might not be Belle Delphine's bath water. .

Of course this article has quickly become a topic of discussion, even fierce debate on many different forums. And when the subjective arguments began to gradually not find a common voice, science was quickly involved.

So the question is whether we can actually check the water in a person's bath to find that person's DNA.

1. DNA information leaks are worse than leaking many credit card information

### *Promotional video of Belle Delphine*

'Of course, this is absolutely possible,' is the firm affirmation of the famous forensic biologist Helen Page. Helen Page is currently a senior lecturer at Teesside University, UK, and a well-known expert in DNA research. In the past, she had actually studied how to recover very special DNA samples, obtained from the bath.

Talk a little bit about DNA. Basically, DNA is a molecule that carries genetic information in the form of a set of three genetic codes, regulating all living activities (including the process of growth, reproduction, development .) of all species and Most viruses exist on the earth. Biological information, genetic code to the next generation as well as to guide the production and synthesis of proteins will be stored in DNA.

In fact, restoring DNA sequences from specimens collected in the bathroom such as a shower or bath is not a strange task in criminal forensics. This work can provide useful, landmark contributions in the investigation of a case (usually sexual assault), especially if the victim does not want to undergo a forensic examination. full (often quite complex and sensitive), or bathed after being attacked.

1. DNA analysis showed that the first modern British had dark skin, blue eyes

Helen Page has spent many years studying how DNA in semen samples can be recovered after a certain period of time. This sample of semen can be found in bathroom sewers, bath towels, baths, or other scrubbing items such as bath towels (also called sponge, loofah). She discovered that it was possible to recover DNA from the specimen collected on the bathroom screen, stains, or even just by wiping around the walls, brackets and manhole of the tank. shower.

In addition, Helen Page has demonstrated that DNA can be recovered from semen in bath water, but semen also contains biological characteristics that are very different from those in the body. 'The DNA structure of a sperm is quite stable compared to other cells, especially when it comes to the natural process of aging (aging) of cells in general,' the researcher said. In the case of Belle Delphine, instead of semen, the most likely source of DNA will be from skin cells, which can peel off when the skin comes into contact with water and floats in the bath. . Helen Page's research on this issue continues to be carried out under strict laboratory control conditions. However, in the case of the other social network star, if there is no specific evidence of the 'production process' (Belle Delphine's specific actions in the bath), there is really no way to Determine how much Delphine DNA is in the water.

1. This 10-second video will help you know how to edit the gene



### *Simulation of DNA sequence structure*

'It will be difficult to know how many cells have been peeled off during bathing, or' playing with water ', Helen Page said. At the same time, the scientist also asserted that if Belle Delphine only lightly splashed water on the body (as in the promotional video), there would be very few skin cells peeling off when scrubbing more thoroughly. At the same time expressed skepticism about whether such a small bottle of bath water could contain enough DNA to analyze, especially when the girl only lightly bounced off the water.

Besides, another factor is also worth noting, that is the time that DNA can survive in a complex environment such as bath water is not long. The biggest threats to DNA integrity are temperature, humidity and bacteria . all of which are easily found in the bath. In addition soap and other highly corrosive cleaning agents can also easily break down DNA structure, while not many scientific studies available today are related to these cases.

The problem has not stopped there. Even if there is enough DNA (still intact structure) needed in the water to carry out the test, and you have the right laboratory equipment, identifying a person is not simple. . In this case, the analysis can completely indicate whether the DNA is human or not, but it is another story to determine who the DNA sequence belongs to. 'You cannot claim that it is Belle Delphine's DNA unless you have her DNA file in her hand for direct comparison, which is a mandatory condition,' said Helen Page.

1. Human DNA is 600 times longer than the distance from the Sun to Earth



*The original DNA profile of the subject is required for comparison*

Of course, all of the 'long' things mentioned above will only answer the question of whether people can - not they should - test a small \$ 30 bath to find DNA. . As for Belle Delphine's purpose in this quirky buying deal, it was obvious. This social network star wants to sell the bottles of water to his fans. They are happy and she earns profits, both are satisfied with the deal. So trying to point out whether these baths are really 'standard' or not is hard work that doesn't mean much, by those who want to believe (Belle Delphine fans) they will still believe, while those who are skeptical from the beginning will still not trust the final result.

1. Finding new vitamins can help repair damaged DNA, reverse the aging process

And above all, the authorities, the consumer rights agency, have no reason to punish Belle Delphine unless they receive specific complaints and evidence about this girl selling. ' pity '.

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