

P-Kit

BIODEGRADABLE, IN-BATHROOM
DIAGNOSTIC KIT FOR ANYONE
IN ANY TOILET ANYWHERE

WHAT

The P-Kit is a **low-cost, biodegradable and in-bathroom** urine rapid testing kit with a universal toilet seat cover that aids in getting a contactless, mess-free and hygienic urine sample in any toilet space. This provides an accessible medical testing kit that could detect symptoms and presence of diseases such as diabetes, urinary tract infection, HIV, malaria, pneumonia, and etc.

This makes any toilet not just a space for relief but also a room for assessing your personal health.



HOW

1. Get a P-Kit.
2. If you need assistance in getting a mess-free urine sample, unfold the toilet seat cover from the pouch and place it on the toilet seat. Then put the urine cup in the allotted cup frame in the cover.
3. Pee.
4. Get the urine cup and cover it, then flip the cup upside down in a quick motion.
5. Wait for 60 seconds before reading the results.
6. Dispose the P-Kit in a biodegradable trash or you could even bury it in soil.

All of the components of the P-Kit is made from **plant-based bioplastic**, which makes all pieces **BIODEGRADABLE, COMPOSTABLE, PRO-MARINE LIFE and FREE OF HARMFUL CHEMICALS.**

WHY

One of our main reasons for going to the toilet is to pee. Our **urine**, aside from being our body's waste product, could also tell us **information about our overall health.**



In the United Nations **Sustainable Development Goal 3**, it is highlighted how health and well-being of people is a prerequisite for development. Epidemics identified in the UN SGD 3 like **AIDS, malaria, hepatitis**, along with **diabetes, pneumonia, and kidney-related diseases is proven to be detected through urine.**

Unfortunately, many people are not keen on monitoring their health. According to the 2017 report from the World Bank and WHO, half of the world's population has limited access to basic health services. Rural communities lack health assistance while 58% of people in urban cities avoid routine check-ups because they do not have time for it.

As we near 2030, more efforts are needed to ensure that everyone, regardless of economic status, is living a healthy life. Some of these diseases do not have cure yet and the P-Kit could provide its best alternative – **early detection.** The main problems that could be solved by the P-Kit include:



Messy dipstick tests to assess urine, especially for women and elderly.



Inaccessible and time-consuming basic health services.

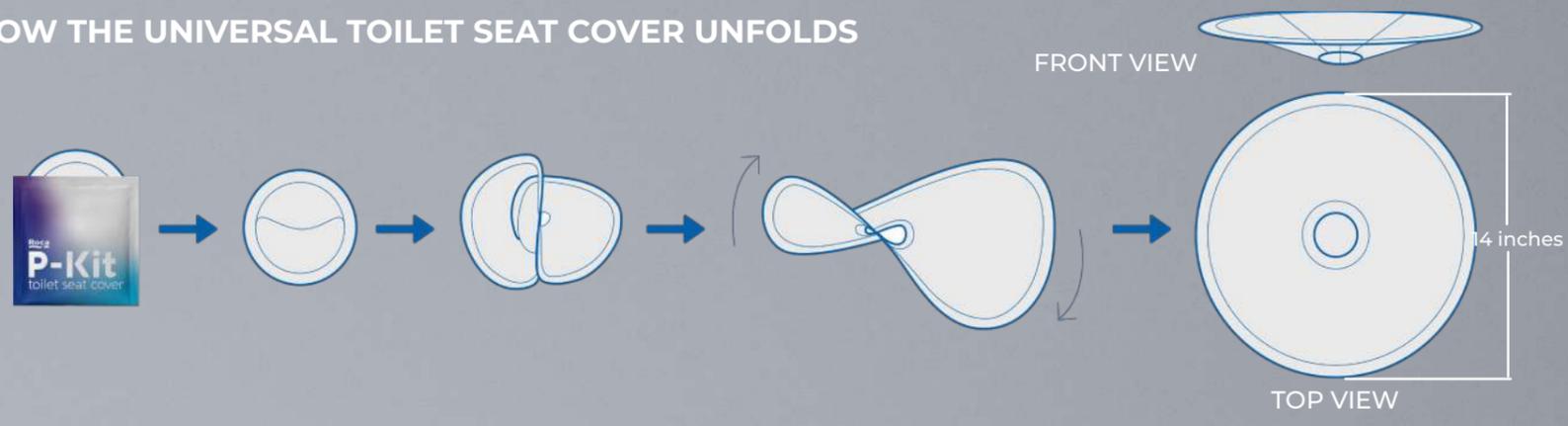


Costly separate appointments for testing of different diseases.



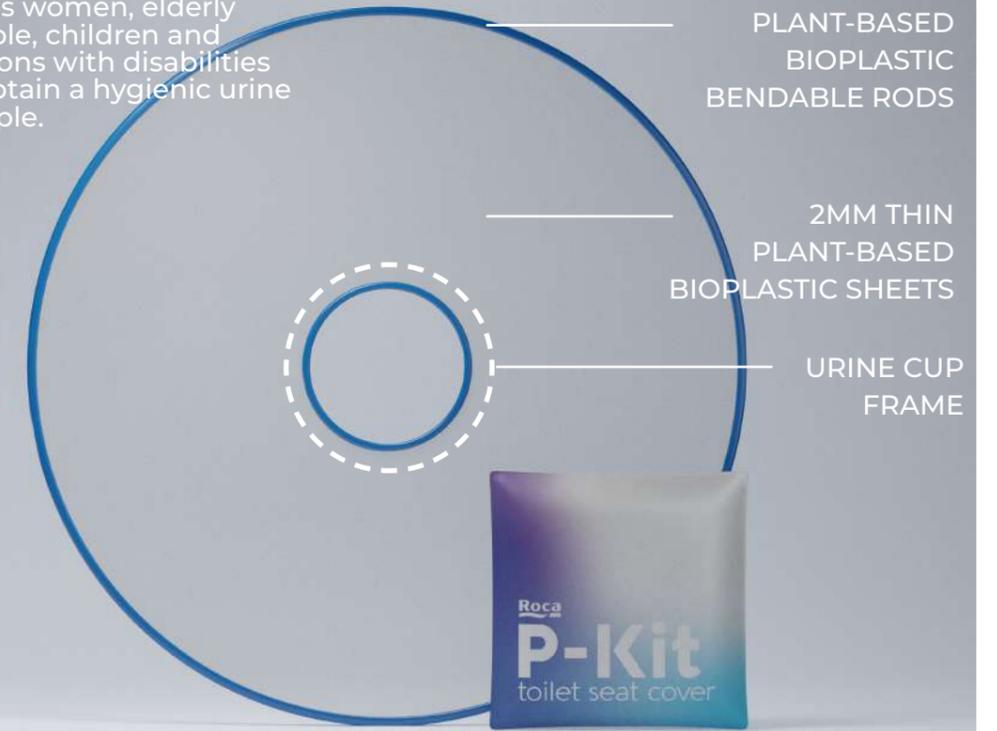
25% of medical waste are single-use, petroleum-based plastics.

HOW THE UNIVERSAL TOILET SEAT COVER UNFOLDS



UNIVERSAL TOILET SEAT COVER

Helps women, elderly people, children and persons with disabilities to obtain a hygienic urine sample.



URINE SAMPLE CUP

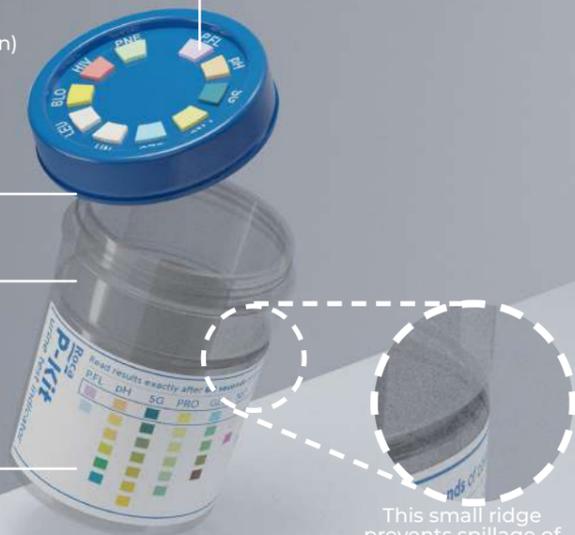
TEST REAGENTS* FOR:

- Pneumonia
- HIV
- P. falciparum (Malaria)
- pH Level
- Spec. Gravity (may indicate dehydration)
- Protein (large amounts may indicate kidney problems)
- Glucose (may indicate diabetes)
- Nitrite & Leukocyte (may indicate UTI)
- Blood (presence of blood indicates problem in different organs)

PLANT-BASED BIO-PLASTIC CAP

PLANT-BASED BIO-PLASTIC SAMPLE CUP

TEST RESULTS INDICATOR MADE OF COMPOSTABLE PAPER



This small ridge prevents spillage of urine and serves as a marker on the optimum amount of urine needed

* The test reagents could also be modified to include more chemical tests such as reagents for pregnancy, cancer, etc.

P-KIT DISPENSER FOR PUBLIC TOILETS

To make the P-Kit more accessible, dispensers could be installed in public toilets.

