

Paraquat Dithionite Urine Test (DUT) provides qualitative confirmation of paraquat exposure.

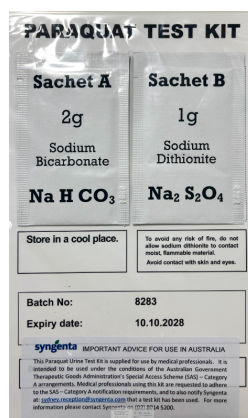
## Toxicity / Risk Assessment

See Separate *Paraquat Guideline*

**Dithionite Urine Testing (DUT) should NOT delay immediate decontamination or resuscitation**

DUT is available free from Syngenta Australia - (02)88768444  
or [Sydney.Reception@syngenta.com](mailto:Sydney.Reception@syngenta.com)

## Example of DUT



## Mortality Likelihood (%)

- Vomiting or oral burns  $\approx$  50%
- Dithionite Urine Test (DUT): Negative < 5%, Positive  $\approx$  66%
- DUT positive AND Creatinine >230  $\mu\text{mol/L}$   $\approx$  95%
- DUT positive AND Creatinine rise >115  $\mu\text{mol/L}$  in 24hrs  $\approx$ 95%
- Generalized peripheral burning sensation at 24 hours  $\approx$  75%

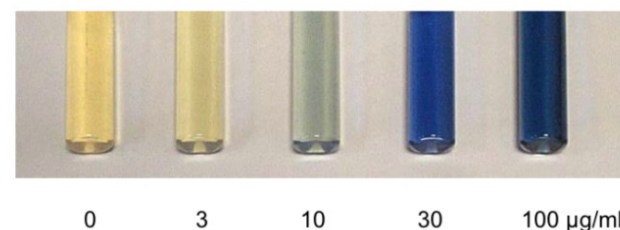
## Instructions

- Don gloves and eye protection
- Confirm test is in date
- Collect 10 mL of urine in a clear container
- Add Sachet A (2g sodium bicarbonate) and shake gently
- Add Sachet B (1g sodium dithionite) allow effervescence to subside then shake again
- Once the mixture has settled, view colour against a white background

## Interpretation

**Positive result: a blue or green colour** which confirms significant systemic paraquat exposure

Detects concentrations of paraquat in urine **down to 2  $\mu\text{g/mL}$**



A **negative** spot test should be **repeated 6 hours** post-ingestion

A **positive** spot test should be *discussed with a clinical toxicologist ASAP*

## Disposition

- Patients who are clinically well without oral burns and two negative dithionite urine tests 6 hours apart are unlikely to have experienced a significant exposure (discuss with a Clinical Toxicologist)