

## Technical Data Sheet

### Pacific Rim Oenology Services

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Product Name  
**A/O Indicator for SO<sub>2</sub> (Aspiration) Test**

Original - Issue date:  
02/08/17 - 02/08/17

### Section 1 - Product Description

- Proprietary dye mixture, dark blue-purple solution
  - Contains methylene blue, methyl red-HCl, methyl red-Na, methyl violet

### Section 2 - General Information

- Dyes in the indicator can temporarily stain skin, and permanently stain clothing, paper, formica, and some painted surfaces

### Section 3 - Applications

- Indicator for the A/O SO<sub>2</sub> (aspiration) test

### Section 4 - Instructions for use

- Follow test instructions
- In SO<sub>2</sub> test:
  - Prepare diluted H<sub>2</sub>O<sub>2</sub> solution (1%) from 30% H<sub>2</sub>O<sub>2</sub>
  - Add several drops of indicator (4-6 drops)
  - Adjust the solution to blue-grey end-point with dilute acid or base for SO<sub>2</sub>

Note:

- Dilute acid/base is approx. 0.0067 N (0.01 N HCl or NaOH - 2/3 with 1/3 DI water)
- If solution is bright green, the deionised water is too alkaline to use, see A/O SO<sub>2</sub> instructions
- Acidify sample with phosphoric acid, aspirate.
- Indicator should turn purple (if not, there is no detectable SO<sub>2</sub>)
- Titrate dropwise back to grey-blue endpoint with 0.01N NaOH

### Section 5 - Rates of addition

- For test: 4-6 drops

## Section 6 - Storage & Shelf life

- Sunlight destroys methyl red dye
- Shelf life: 6 months to 1 year if kept from sunlight, or until it fails the colour test below
- Colour Test:
  - Prepare diluted H<sub>2</sub>O<sub>2</sub> solution as for A/O SO<sub>2</sub> test, put 10-20 ml in a glass beaker or flask
  - Add dilute acid for SO<sub>2</sub> until solution turns a bright royal purple
  - Add dilute base for SO<sub>2</sub> until solution turns a bright emerald green
  - If indicator does not achieve these colours, but turns only blue-purple and blue-green it should be discarded

## Section 7 - Safety information

- Poisonous if ingested
- Irritating to eyes and skin
- Flammable
- Refer to Safety Data Sheet for more complete safety information

**Revision Date:** 18/08/2020

**Revision Summary:** Update to format

**Version:** 2

**Owner:** Oenologist

### Disclaimer

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# End of Technical Data Sheet