



Sulfur dioxide is used as a preservative in wine and there are restrictions limiting the amount that can be added in most wine producing countries. This test kit is a fast and easy way to determine the amount of total sulfur dioxide in wine samples, without the need for the laborious setup associated with traditional methods. This method can be used for both white and red wines.

PRINCIPLE OF MEASUREMENT

The amount of sulfite present in wine is measured by monitoring the reaction with a chromogen under basic conditions. The reduction of the chromogen leads to formation of a strongly absorbing compound which can be measured at 340 nm. The measured amount of the activated chromogen is stoichiometrically proportional to the amount of total sulfite present.

TEST PERFORMANCE (n = 101, white and red wines)

Average difference between test kit and aspiration oxidation = 3 mg/L (SD 6 mg/L)

Correlation between test kit and aspiration oxidation: $R^2 = 0.99$

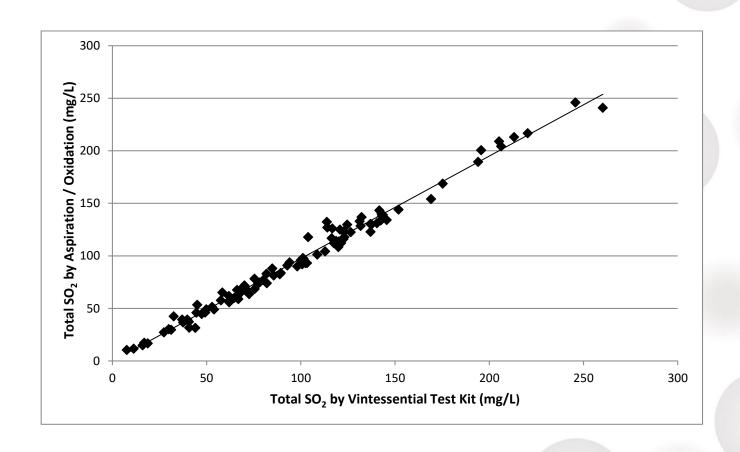
Repeatability (CV) =
$$0.63\%$$

$$(SD) = 0.58 \text{ mg/L}$$

$$(SD) = 1.72 \text{ mg/L}$$

Linearity =
$$10 - 200 \text{ mg/L}$$





ITEMS REQUIRED BUT NOT SUPPLIED

Item code*

Semi-micro cuvettes 2C890

Spectrophotometer 2S120 or 2S140
Micropipette 2P398 and 2P399
Pipette tips 2P500 and 2P502

Parafilm 2P140

Distilled water 1W002 / 1W022

© Vintessential Laboratories 2020. No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior written permission of the publisher.

^{*} Vintessential items available within Australia only