iDQuant™ Standards Kit for Pesticide Analysis
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Introduction

The iDQuant™ Standards Kit for Pesticide Analysis of certified reference material (ISP Guide 34, ISO/IEC 17025 and ISO 9001:2008) includes 204 pesticides provided in 10 mixes with an initial concentration of 100 μg/mL in acetonitrile.

This iDQuant™ Kit has been designed to eliminate the need for you to source pesticides individually, and measure each one manually. This allows you to verify and validate the performance of your pesticide screening method faster.

Please review the documentation completely before using the enclosed kit. Please also read the SDS thoroughly prior to using this kit. Detailed LC and MS/MS conditions can be found in the document of iMethod™ Test for Pesticide Screening version 2.1.

Preparation of Stock Solution and Calibration Standards

The following procedures are provided as an example for the preparation of a stock solution and calibration standards

1. Store the kit at -20˚C. Bring to room temperature and vortex before use.
3. Transfer the contents to an amber glass vial with secure cap.
4. Label accordingly.
5. Discard ampoule in the appropriate safety container.
6. Add 10 μL of each pesticide mix into a single clean labeled amber glass vial.
7. Add 900 μL of acetonitrile for a stock solution with a concentration of 1 μg/mL.
8. Mix for approximately 30 seconds using a vortex mixer.
10. Store at -20˚C, in securely capped amber vials, for future use.

Further serial dilutions can be made from this stock solution to prepare calibration standards.

11. Add the appropriate volume of the stock solution into a labeled amber glass vial.
12. Fill up to 1 mL with water or the aqueous mobile phase of your LC method.
13. Mix for approximately 30 seconds using a vortex mixer.
14. Place in the autosampler.

Note: Calibration standards in aqueous solvent should be prepared daily to avoid degradation of pesticides.

Solvents for HPLC

(www.sigma-aldrich.com)

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<td>Acetonitrile</td>
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Storage and Stability

The pesticides of the iDQuant™ Standards Kit are stable in the sealed ampoules for one year at -20°C. Contents of open vial should be placed in an amber glass vial with secure cap to prevent leakage. The mixtures should be stored at -20°C. Mix well before use.

The iDQuant™ Standards Kit for Pesticide Analysis Contents

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## Pesticide Content of Ampoules

### Content iDQuant™ Pesticide Standard A1

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