

KX Microwave Reaction Vials

- 0.5-2, 2-5 and 10-20ml volume options
- Rated to a working pressure of 30bar (3MPa / 435psi)^{1,3}
- Temperature operating range of 40-300°C^{2,3}
- Manufactured from contamination free 1st class hydrolytic borosilicate glass
- Re-sealable septa for multiple reagent additions and reaction monitoring
- Alternative reaction vial in an oil bath or on a hot plate⁴

Introduction

The use of microwaves is a common approach to decreasing reaction times in organic synthesis. In particular, reactions times using Pd, Pt or other metal catalysts can be reduced significantly. Using vials optimised for such conditions allows reactions to be performed at temperatures above the boiling point of the solvent used – this cannot be performed using standard reaction devices, e.g. under reflux.

Quality

KX Microwave Reaction Vials from Kinesis are the high quality cost effective alternative for use with compatible systems. KX Microwave Reaction Vials can be used at temperatures of up to 300°C² and a working pressure of up to 30bar (even over extended reaction times).

All KX Microwave Reaction Vials are manufactured from high quality glass which does not contaminate reaction mixtures.

Re-sealable Silicone/PTFE Crimp Caps

The use of re-sealable silicone/PTFE septa allows the multiple addition of reagents and sampling to monitor reaction progress (whilst maintaining sealed reaction conditions). All KX Microwave Reaction Vials are supplied with 20mm crimp caps; additional crimp caps are available as either pk/100 or pk/1000.

Stirrer Bars

Kinesis offer stirrer bars for all KX Microwave Reaction Vials. The PTFE coated stirrer bars provide a homogeneous reaction mixture, ensuring reactions are driven to completion in the minimum time.

Crimping and Decapping Options

Kinesis offers tools for crimping and decapping KX Microwave Reaction Vials. The crimping tool is fully compatible with KX Microwave Reaction Vials, providing securely crimped vials.

¹ Pressure range is 0-20 bar for the 10-20ml vial

² Temperature range is 40–250°C for the 10-20ml vial

³ Used with suitable hardware

⁴ Used under controlled conditions



KX Microwave Reaction Vials and Accessories – Ordering Information

KX Microwave Reaction Vials and Caps		
PART NUMBER	DESCRIPTION	PACK SIZE
VMW02-C-100	KX Microwave Vials, 0.5 – 2ml with cap	100
VMW05-C-100	KX Microwave Vials, 2 – 5ml with cap	100
VMW20-C-50	KX Microwave Vials, 10 – 20ml with cap	50
CMW20-04B	Silicone/PTFE Crimp Caps, 20mm	1000
CMW20-04B-100	Silicone/PTFE Crimp Caps, 20mm	100

Stirrer Bars		
PART NUMBER	DESCRIPTION	PACK SIZE
SB-02	PTFE Stirrer Bar for 0.5 – 2ml Vial	25
SB-05	PTFE Stirrer Bar for 2 – 5ml Vial	25
SB-20	PTFE Stirrer Bar for 10 – 20ml Vial	5

Crimper and Decapper		
PART NUMBER	DESCRIPTION	PACK SIZE
CRT-20	Crimping Tool (20mm)	EACH
DCT-20	Decapper Tool (20mm)	EACH