

Hexokinase



Product description	Hexokinase
Product code	HK1
Use	The product is supplied for invitro use only. To be used for research and/or further manufacturing purposes and is not to be used in humans or animals
Data guidance	Performance of recombinant Hexokinase was assessed for activity, purity, temperature and pH optimums.

Performance metrics

Performance evaluation	Result
Purity	>90% See section A
Activity	>100 U/mg material See section B
Temperature profile	Maximum activity at 40 °C See section C
pH profile	Maximum activity at pH 7.0-8.0* See section D

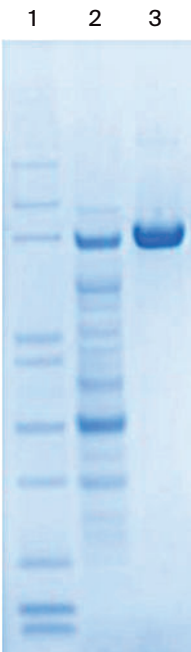
*Dependent on buffer system used



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Section A - Purity

Hexokinase was assessed by SDS-PAGE alongside a commercially available competitor enzyme to demonstrate purity.



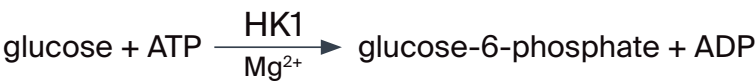
Lane 1: Molecular weight marker

Lane 2: Commercially available competitor material

Lane 3: BBI HK1

Section B - Activity

Enzyme activity was assessed using the enzymatic reaction outlined below. Undesired cross reactivities were tested to demonstrate relative activity by percentage.



Analyte	Specification	Result (lot 260008)
Hexokinase	>100 U/mg material	151 U/mg
G6PDH	<0.1% comparative activity	0.0001 U/mg (0.0001%)
ATPase	<0.1% comparative activity	0.0013 U/mg (0.0008%)
NADH-oxidase	<0.1% comparative activity	0.0003 U/mg (0.0002%)



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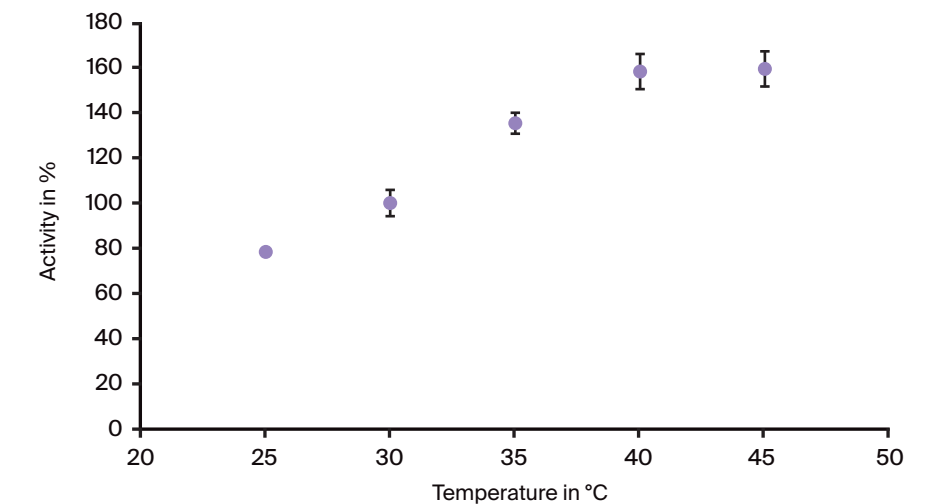
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Section C - Temperature Profile

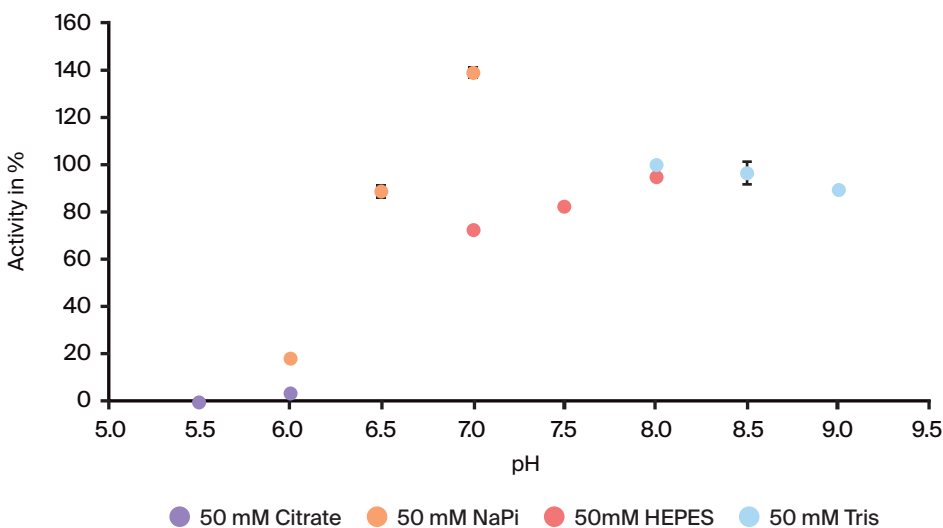


Percentage of maximum activity was measured across a range of temperatures, with each temperature tested in triplicate.



Section D - pH Profile

Percentage of maximum activity was tested across a wide pH range and variety of buffers, with each pH and different buffer across the pH range tested in triplicate.



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