

HDL CHOLESTEROL

Precipitation/Enzymatic-spectrophotometric
PHOSPHOTUNGSTATE/Mg²⁺-CHOLESTEROL OXIDASE/PEROXIDASE

The application parameters comprised here constitute a guide to facilitate the validation of our reagents by the instrument. It is advisable to validate the use when there is any change in software or reagent versions.

Instrument: MONARCH

Samples

Serum or plasma. Stable for 7 days at 2-8°C.
Heparin, EDTA, oxalate and fluoride may be used as anticoagulants.

Precipitation Procedure:

1. Pipette into labelled centrifuge tubes:

Sample	0.2 mL
Reagent A	0.5 mL
2. Mix thoroughly and let stand for 10 minutes at room temperature.
3. Centrifuge at a minimum of 4000 r.p.m. for 10 minutes.
4. Carefully collect the supernatant.

Reagent preparation

Reagent B is ready to be used.

Instrument settings

<p>Identification parameters</p> <table style="width: 100%; border: none;"> <tr><td>Test code</td><td>...</td></tr> <tr><td>Test name</td><td>HDL-CHOLESTEROL</td></tr> <tr><td>Test mnemonic</td><td>HDL-C</td></tr> <tr><td>Optical mode</td><td>ABSORBANCE</td></tr> <tr><td>Response algorithm</td><td>FINAL-INITIAL</td></tr> <tr><td>Result algorithm</td><td>LINEAR</td></tr> </table> <p>Loading parameters</p> <table style="width: 100%; border: none;"> <tr><td>Loading type</td><td>LOAD</td></tr> <tr><td></td><td>ANALYZE</td></tr> <tr><td>Reagent blank</td><td>ON</td></tr> <tr><td>Reference type</td><td>DILUENT</td></tr> <tr><td>Calibrator type</td><td>MULTI-COMPONENT (...)</td></tr> <tr><td>Sample volume</td><td>20 µL</td></tr> <tr><td>Sample diluent</td><td>20 µL</td></tr> <tr><td>Reagent diluent</td><td>10 µL</td></tr> <tr><td>1st reagent (R1)</td><td>200 µL</td></tr> <tr><td>2nd reagent (R2)</td><td>0 µL</td></tr> <tr><td>1st reagent bar code</td><td>...</td></tr> <tr><td>2nd reagent bar code</td><td>...</td></tr> </table> <p>Data fit parameters</p> <table style="width: 100%; border: none;"> <tr><td>Calibrator</td><td>...</td></tr> <tr><td>Correction mode</td><td>NONE</td></tr> <tr><td>Units</td><td>mg/dL</td></tr> <tr><td>N° of dec. Places</td><td>0</td></tr> </table>	Test code	...	Test name	HDL-CHOLESTEROL	Test mnemonic	HDL-C	Optical mode	ABSORBANCE	Response algorithm	FINAL-INITIAL	Result algorithm	LINEAR	Loading type	LOAD		ANALYZE	Reagent blank	ON	Reference type	DILUENT	Calibrator type	MULTI-COMPONENT (...)	Sample volume	20 µL	Sample diluent	20 µL	Reagent diluent	10 µL	1 st reagent (R1)	200 µL	2 nd reagent (R2)	0 µL	1 st reagent bar code	...	2 nd reagent bar code	...	Calibrator	...	Correction mode	NONE	Units	mg/dL	N° of dec. Places	0	<p>Data acquisition parameters</p> <table style="width: 100%; border: none;"> <tr><td>Analysis type</td><td>MIX</td></tr> <tr><td></td><td>RUN</td></tr> <tr><td>Temperature</td><td>37°C</td></tr> <tr><td>Delay time</td><td>15 sec</td></tr> <tr><td>Interval time</td><td>555 sec</td></tr> <tr><td>N° of data pts.</td><td>2</td></tr> <tr><td>Filter 1</td><td>690 nm</td></tr> <tr><td>Filter 2</td><td>500 nm</td></tr> <tr><td>Monochromator 1</td><td>690 nm</td></tr> <tr><td>Monochromator 2</td><td>500 nm</td></tr> <tr><td>Compatibility</td><td>6</td></tr> </table> <p>Data integrity parameters</p> <table style="width: 100%; border: none;"> <tr><td>Integrity tests</td><td>SLOPE</td></tr> <tr><td></td><td>NORMAL RANGE</td></tr> <tr><td></td><td>MINIMUM ABS/INT</td></tr> <tr><td></td><td>MAXIMUM ABS/INT</td></tr> </table> <p>Integrity parameters</p> <table style="width: 100%; border: none;"> <tr><td>Slope</td><td>POSITIVE</td></tr> <tr><td>Lower limit</td><td>30 mg/dL</td></tr> <tr><td>Upper limit</td><td>70 mg/dL</td></tr> <tr><td>Minimum abs/int</td><td>0.0</td></tr> <tr><td>Maximum abs/int</td><td>0.1</td></tr> </table> <p>... To be introduced by the operator</p>	Analysis type	MIX		RUN	Temperature	37°C	Delay time	15 sec	Interval time	555 sec	N° of data pts.	2	Filter 1	690 nm	Filter 2	500 nm	Monochromator 1	690 nm	Monochromator 2	500 nm	Compatibility	6	Integrity tests	SLOPE		NORMAL RANGE		MINIMUM ABS/INT		MAXIMUM ABS/INT	Slope	POSITIVE	Lower limit	30 mg/dL	Upper limit	70 mg/dL	Minimum abs/int	0.0	Maximum abs/int	0.1
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