# Vitamin B1 & B6 in whole blood

Value Data Sheet 1021 CON M VB1B6

Blood Controls for LCMSMS Assay in whole blood

REF 1021 CON M VB1B6

LOT 06Q21/C

2024/06

IVD For in vitro diagnostic use

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## Intended use:

This product is to be used as a means of verifying the Vitamin B1 & B6 assay.
These lyophilized Vitamin B1 & B6 controls are hemolysates prepared from packed human erythrocytes. Stabilizers are added to stabilize the analytes for accurate verification of the Vitamin B1 & B6 procedure. After reconstitution these lyophilized controls should be treated as a patient sample.

## Reconstitution:

Add exactly 500 µl of deionized water to the vial and let stand for 15 minutes.
Mix gently for another 15 minutes. When all material is dissolved the solution is ready for use.

## Storage and Stability

This product will be stable until the expiration date when stored unopened at 2 - 8 °C.
After reconstitution the stability of the analytes is: 48 hours at 2 - 8 °C
2 weeks at - 20 °C
The stated stabilities are only valid in case of no bacterial contamination.
Avoid repeated freezing and thawing.

## Caution:

The human whole blood used for manufacturing the controls was tested for the following infectious markers and found negative: HIV1/2-, HBV- and HCV-antibodies, Hepatitis B-surface antigen, HIV1- and HCV-RNA, HBV-DNA (NAT). Nevertheless, the whole blood controls should be considered as potentially infectious and treated with appropriate care.

## Pack size:

Vitamin B1 & B6 Control Set
3 x 3 x 500µl, Control I - III

## Notes:

The concentrations of the analytes are chosen in ranges where valid results can be obtained.
The variation of the filling volume (CV) is < 1 %.

## Concentrations:

| 1021 CON M VB1B6 | LOT | Vitamin B1 (nmol/l) Thiaminepyrophosphate TPP | | Vitamin B6 (nmol/l) Pyridoxal -5- phosphate (PLP) | |
|---|---|---|---|---|---|
| | | Mean | Range | Mean | Range |
| Control I 1033 | 06Q21/07 2024/06 | 48 nmol/l | 36 – 60 nmol/l | 27 nmol/l | 20 – 34 nmol/l |
| Control II 1034 | 06Q21/08 2024/06 | 131 nmol/l | 98 – 164 nmol/l | 81 nmol/l | 61 – 101 nmol/l |
| Control III 1035 | 06Q21/09 2024/06 | 298 nmol/l | 223 – 373 nmol/l | 162 nmol/l | 121 – 203 nmol/l |