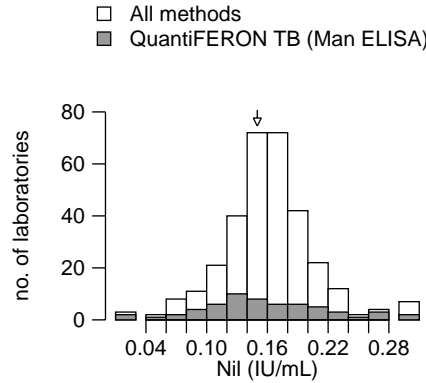


362 / 419 (86%) laboratories returned results for this distribution.
Sample 225-1 was from a 15 year old female who had been exposed to open TB from a school friend. This sample was linked to iEQA case 257.
Participants must register for the iEQA scheme to gain access to further clinical details. Please contact us if you require further information about iEQA registration.
The statistics for the VIDAS TB (EIA) method group are calculated against MLTM.
However, as the minimum number of returned results required to make scoring statistically meaningful was not met for this method group, it will not be subject to variance index scoring.

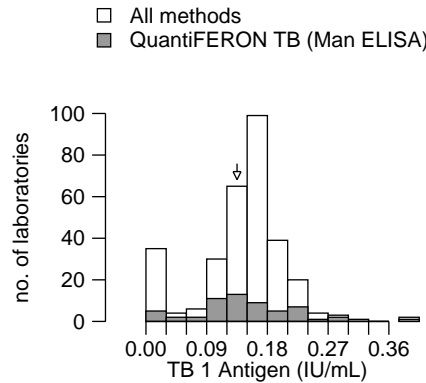
Your MRVIS is 33 ●
Your MRBIS is -12
Your SDBIS is 42 ●

Nil (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	318	0.17	0.03	20.4
LIAISON QFTB (CLIA)	148	0.17	0.02	13.1
OTHER (Automated)	3	0.18	0.03	16.3
OTHER (Manual)	1	0.24		
QuantiFERON TB (Auto ELISA)	103	0.15	0.04	24.4
QuantiFERON TB (Man ELISA)	59	0.17	0.05	33.1
SDB TB -Feron (Auto FIA)	1	0.29		
SDB TB-Feron (Auto ELISA)	1	0.25		
VIDAS TB (EIA)	2	0.36	0.01	3.9



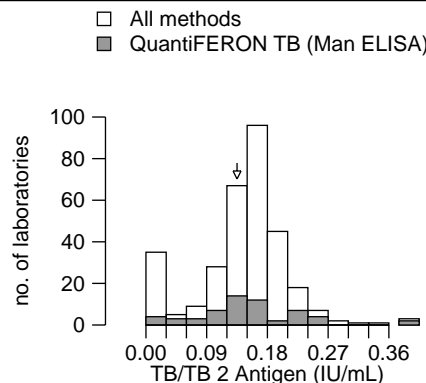
Your result 0.15
Target value (ALTM) 0.17
Your BIS
Standard Uncertainty 0.00
CCV 20

TB 1 Antigen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	308	0.16	0.05	29.1
LIAISON QFTB (CLIA)	146	0.17	0.03	15.0
OTHER (Automated)	2	0.17	0.02	12.1
OTHER (Manual)	1	0.23		
QuantiFERON TB (Auto ELISA)	99	0.14	0.04	30.3
QuantiFERON TB (Man ELISA)	58	0.15	0.07	43.2
VIDAS TB (EIA)	2	0.34	0.05	14.3



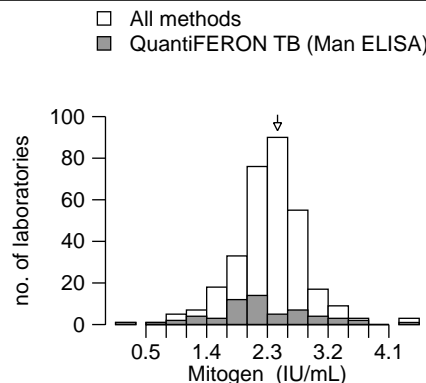
Your result 0.15
Target value (ALTM) 0.16
Your BIS
Standard Uncertainty 0.00
CCV 20

TB/TB 2 Antigen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	317	0.16	0.05	29.2
LIAISON QFTB (CLIA)	148	0.17	0.04	20.7
OTHER (Automated)	3	0.21	0.06	27.5
OTHER (Manual)	1	0.20		
QuantiFERON TB (Auto ELISA)	103	0.14	0.04	31.3
QuantiFERON TB (Man ELISA)	58	0.15	0.06	41.8
SDB TB -Feron (Auto FIA)	1	0.27		
SDB TB-Feron (Auto ELISA)	1	0.35		
VIDAS TB (EIA)	2	0.34	0.04	10.2



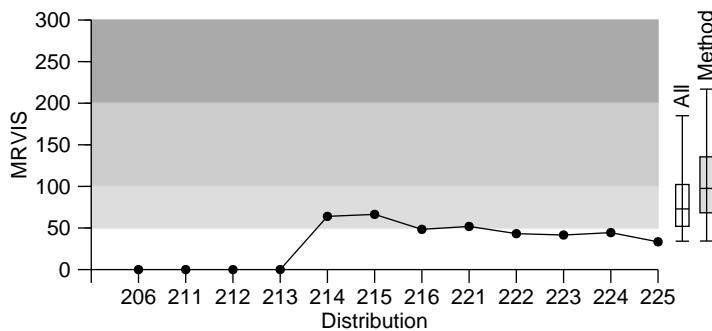
Your result 0.13
Target value (ALTM) 0.16
Your BIS
Standard Uncertainty 0.00
CCV 20

Mitogen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	318	2.37	0.40	17.1
LIAISON QFTB (CLIA)	148	2.48	0.28	11.1
OTHER (Automated)	3	2.63	0.06	2.1
OTHER (Manual)	1	3.01		
QuantiFERON TB (Auto ELISA)	103	2.22	0.37	16.6
QuantiFERON TB (Man ELISA)	59	2.22	0.63	28.4
SDB TB -Feron (Auto FIA)	1	3.41		
SDB TB-Feron (Auto ELISA)	1	2.06		
VIDAS TB (EIA)	2	4.84	0.24	5.0

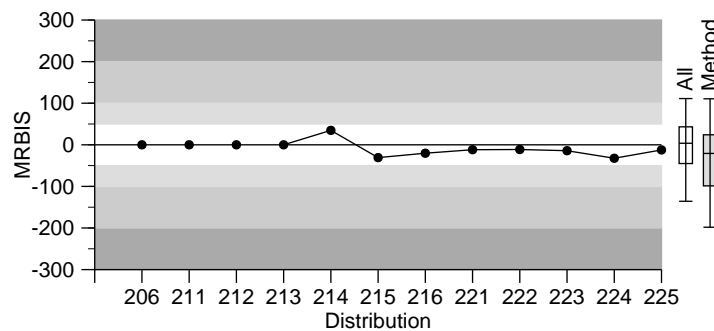


Your result 2.32
Target value (ALTM) 2.37
Your BIS -10
Standard Uncertainty 0.03
CCV 20

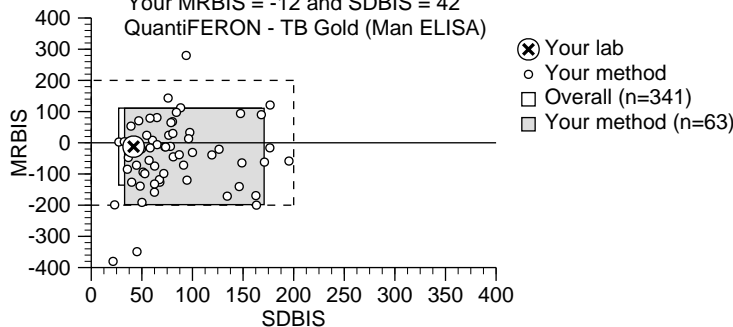
Your MRVIS = +33



Your MRBIS = -12



Scatter plot of MRBIS and SDBIS
Your MRBIS = -12 and SDBIS = 42
QuantiFERON - TB Gold (Man ELISA)



Performance Criteria

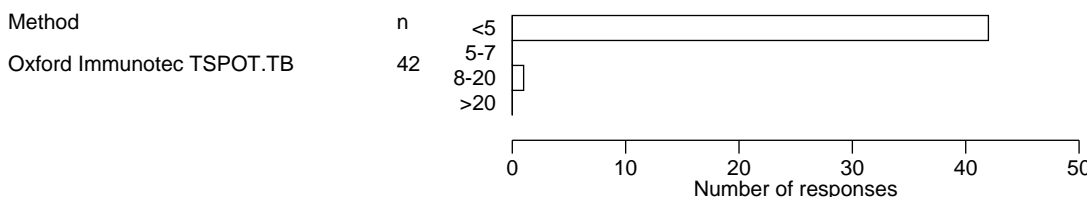
- Ideal MRVIS < 50
- Good MRVIS 50-100
- Adequate MRVIS 100-200
- Poor MRVIS > 200 or SDBIS > 200

For further performance criteria information please see our website at www.immqas.org.uk.
If laboratories require further assistance please contact the centre.



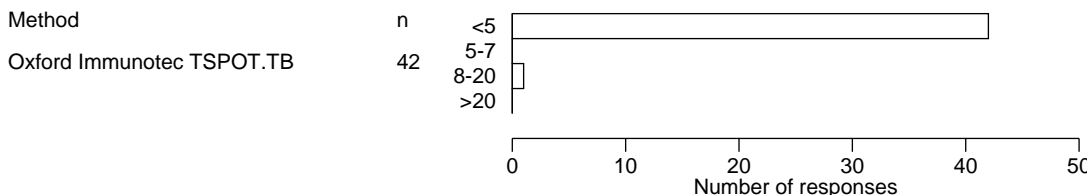
Nil control

Your result :
Target response : <5



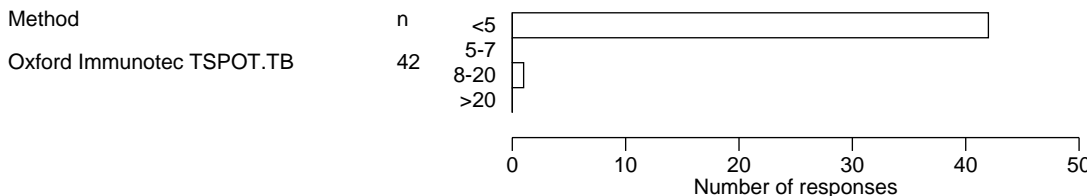
Panel A

Your result :
Target response : <5



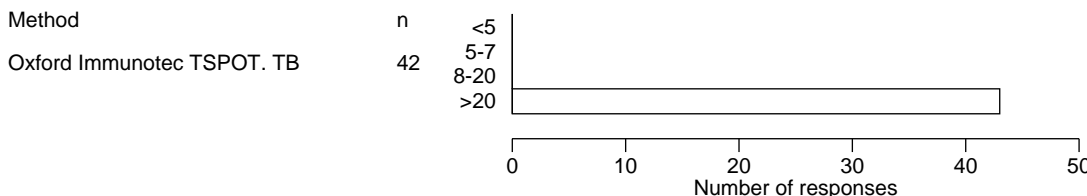
Panel B

Your result :
Target response : <5

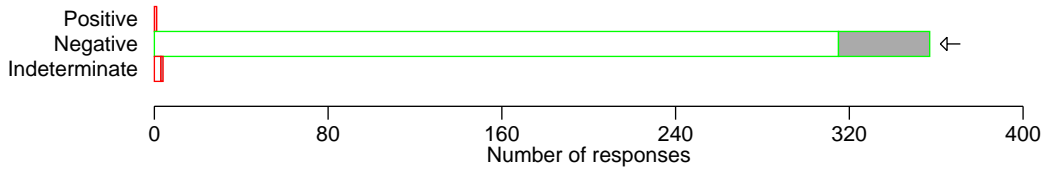


Pos control

Your result :
Target response : >20



Qualitative Results



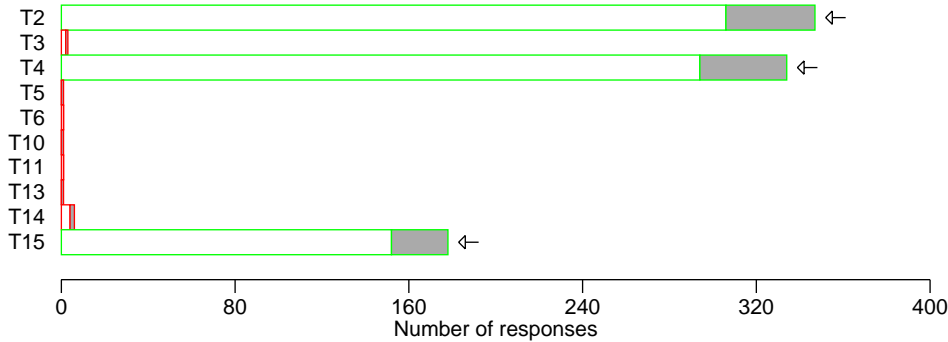
Your result : Negative
Designated response : Negative
Your MIS : 0

Your OMIS : 0
(0=Good, 1-2=Adequate, >2=Poor)

Interferon Gamma
 Elispot

Correct
 Incorrect
 See comments

Technical Interpretation



Your response : T2,T4,T15
Designated response : T2,T4,T15

Interferon Gamma
 Elispot

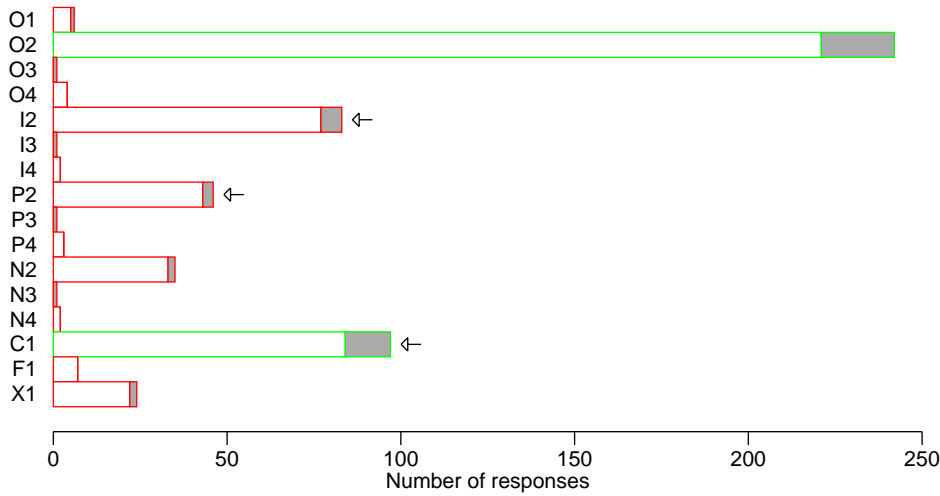
Correct
 Incorrect
 See comments

Technical Interpretation code

- T1 - Reactive to MTB
- T2 - Non-Reactive to MTB
- T3 - Indeterminate Response to MTB
- T4 - QC satisfactory
- T5 - QC unsatisfactory
- T6 - Sample transposition
- T7 - QC fail - PHA response poor
- T8 - Wrong Specimen type
- T9 - Sample mislabelling
- T10 - QC fail - High negative background
- T11 - Sample too old
- T12 - Sample over/under filled
- T13 - Repeat on same sample
- T14 - Repeat with new sample
- T15 - No Action

Clinical Interpretation

Your response : I2,P2,C1
Designated response : O2,C1



Interferon Gamma
 Elispot
 Correct
 Incorrect
 See comments

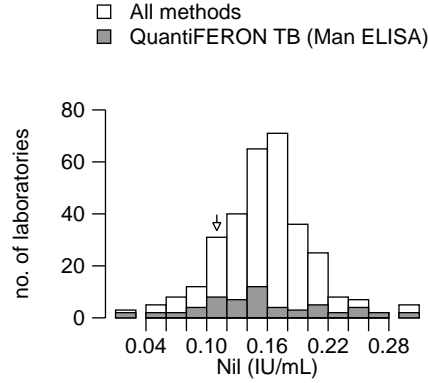
Clinical Interpretation code

- O1 - Exposure: Consistent with exposure to TB
- O2 - Exposure: No evidence of exposure to TB
- O3 - Exposure: Internal QC failed
- O4 - Exposure: Equivocal TB response
- I1 - Illness: Consistent with exposure to TB
- I2 - Illness: No evidence of exposure to TB
- I3 - Illness: Internal QC failed
- I4 - Illness: Equivocal TB response
- P1 - Pre biologic: Consistent with exposure to TB
- P2 - Pre biologic: No evidence of exposure to TB
- P3 - Pre biologic: Internal QC failed
- P4 - Pre biologic: Equivocal TB response
- N1 - Insufficient details consistent with exposure to TB
- N2 - Insufficient details no evidence of exposure to TB
- N3 - Insufficient details internal QC failed
- N4 - Insufficient details equivocal TB response
- C1 - Clinical: Seek clinical advice
- F1 - Probably TB with false negative tests - seek clinical assessment
- X1 - Immunosuppressed: False negative can occur in Immunosuppressed

362 / 419 (86%) laboratories returned results for this distribution.
Sample 225-2 was from a 22 year old female who had been exposed to open TB during hospital admission. This sample was linked to iEQA case 258.
Participants must register for the iEQA scheme to gain access to further clinical details. Please contact us if you require further information about iEQA registration.
The statistics for the VIDAS TB (EIA) method group are calculated against MLTM.
However, as the minimum number of returned results required to make scoring statistically meaningful was not met for this method group, it will not be subject to variance index scoring.

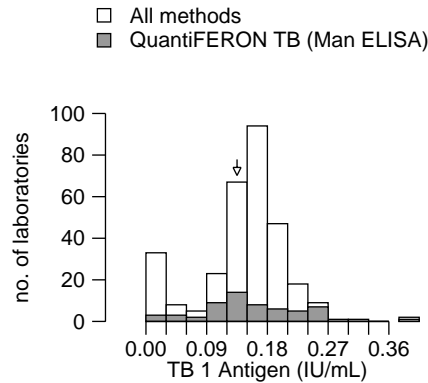
Your MRVIS is 33 ●
Your MRBIS is -12
Your SDBIS is 42 ●

Nil (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	318	0.16	0.04	22.8
LIAISON QFTB (CLIA)	148	0.17	0.02	14.2
OTHER (Automated)	3	0.17	0.04	23.5
OTHER (Manual)	1	0.21		
QuantiFERON TB (Auto ELISA)	103	0.15	0.04	25.3
QuantiFERON TB (Man ELISA)	59	0.16	0.06	36.5
SDB TB -Feron (Auto FIA)	1	0.22		
SDB TB-Feron (Auto ELISA)	1	0.26		
VIDAS TB (EIA)	2	0.33	0.02	6.5



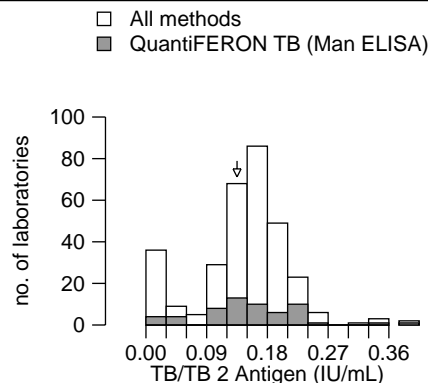
Your result 0.11
Target value (ALTM) 0.16
Your BIS
Standard Uncertainty 0.00
CCV 20

TB 1 Antigen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	308	0.16	0.05	29.4
LIAISON QFTB (CLIA)	146	0.17	0.04	20.6
OTHER (Automated)	2	0.18	0.03	15.7
OTHER (Manual)	1	0.20		
QuantiFERON TB (Auto ELISA)	99	0.14	0.04	30.5
QuantiFERON TB (Man ELISA)	58	0.16	0.06	40.4
VIDAS TB (EIA)	2	0.35	0.04	12.1



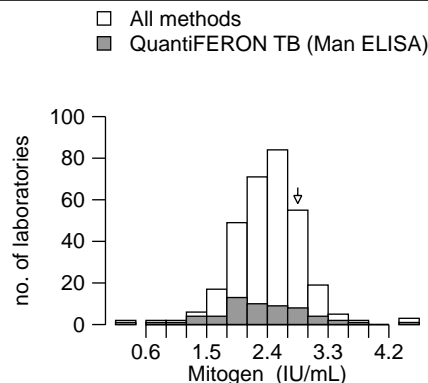
Your result 0.15
Target value (ALTM) 0.16
Your BIS
Standard Uncertainty 0.00
CCV 20

TB/TB 2 Antigen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	317	0.15	0.05	35.0
LIAISON QFTB (CLIA)	148	0.17	0.03	19.8
OTHER (Automated)	3	0.21	0.06	26.5
OTHER (Manual)	1	0.19		
QuantiFERON TB (Auto ELISA)	103	0.14	0.05	37.3
QuantiFERON TB (Man ELISA)	58	0.15	0.06	42.6
SDB TB -Feron (Auto FIA)	1	0.31		
SDB TB-Feron (Auto ELISA)	1	0.26		
VIDAS TB (EIA)	2	0.34	0.01	2.0



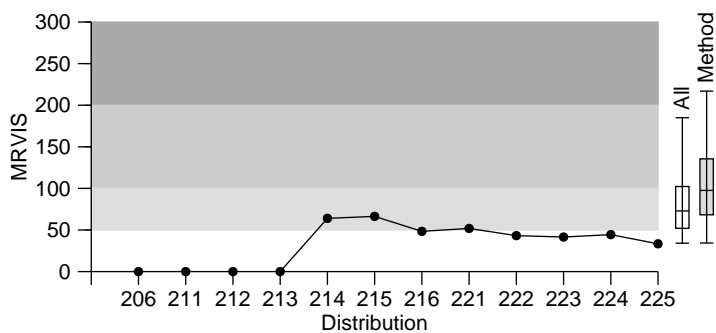
Your result 0.14
Target value (ALTM) 0.15
Your BIS
Standard Uncertainty 0.00
CCV 20

Mitogen (IU/mL)	n	Mean	SD	CV(%)
All methods [ALTM]	317	2.43	0.41	16.9
LIAISON QFTB (CLIA)	147	2.53	0.29	11.3
OTHER (Automated)	3	2.66	0.10	3.6
OTHER (Manual)	1	2.62		
QuantiFERON TB (Auto ELISA)	103	2.31	0.44	19.1
QuantiFERON TB (Man ELISA)	59	2.28	0.55	24.3
SDB TB -Feron (Auto FIA)	1	3.61		
SDB TB-Feron (Auto ELISA)	1	2.07		
VIDAS TB (EIA)	2	4.52	0.08	1.9

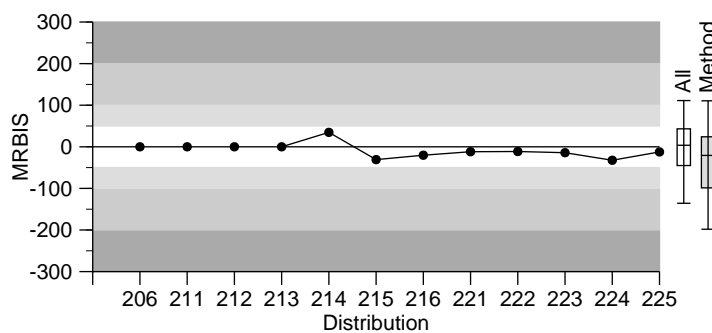


Your result 2.78
Target value (ALTM) 2.43
Your BIS +72
Standard Uncertainty 0.03
CCV 20

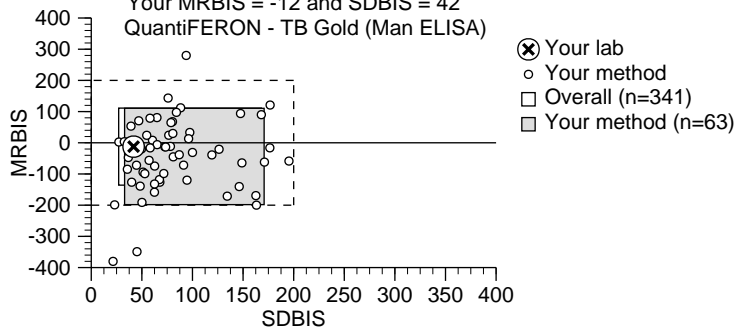
Your MRVIS = +33



Your MRBIS = -12



Scatter plot of MRBIS and SDBIS
Your MRBIS = -12 and SDBIS = 42
QuantIFERON - TB Gold (Man ELISA)



Performance Criteria

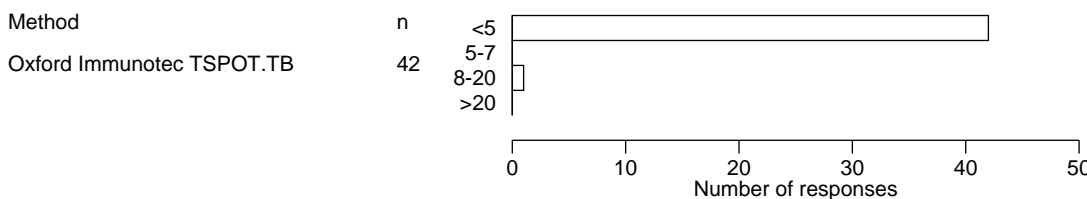
- Ideal MRVIS < 50
- Good MRVIS 50-100
- Adequate MRVIS 100-200
- Poor MRVIS > 200 or SDBIS > 200

For further performance criteria information please see our website at www.immqas.org.uk.
If laboratories require further assistance please contact the centre.



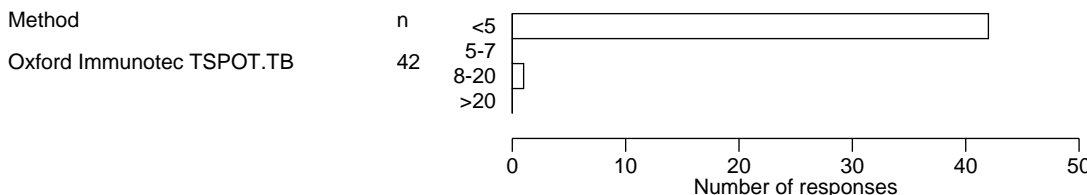
Nil control

Your result :
Target response : <5



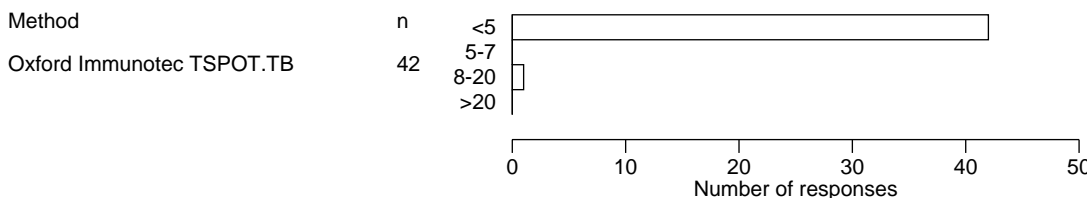
Panel A

Your result :
Target response : <5



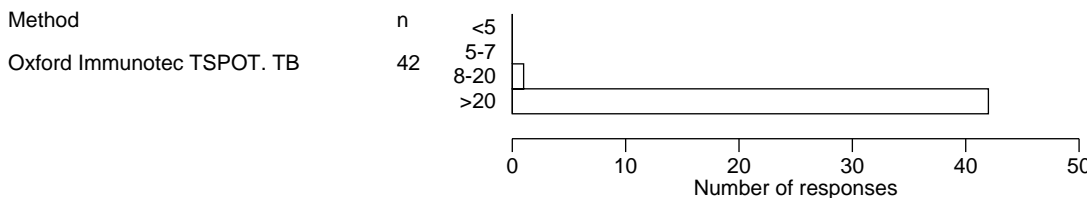
Panel B

Your result :
Target response : <5

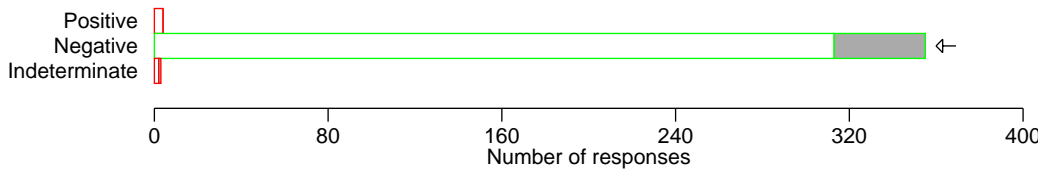


Pos control

Your result :
Target response : >20



Qualitative Results



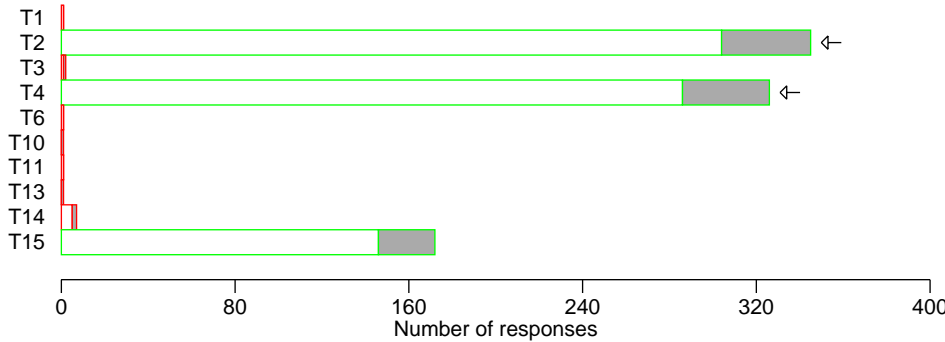
Your result : Negative
Designated response : Negative
Your MIS : 0

Your OMIS : 0
(0=Good, 1-2=Adequate, >2=Poor)

Interferon Gamma
 Elispot

Correct
 Incorrect
 See comments

Technical Interpretation



Your response : T2,T4
Designated response : T2,T4,T15

Interferon Gamma
 Elispot

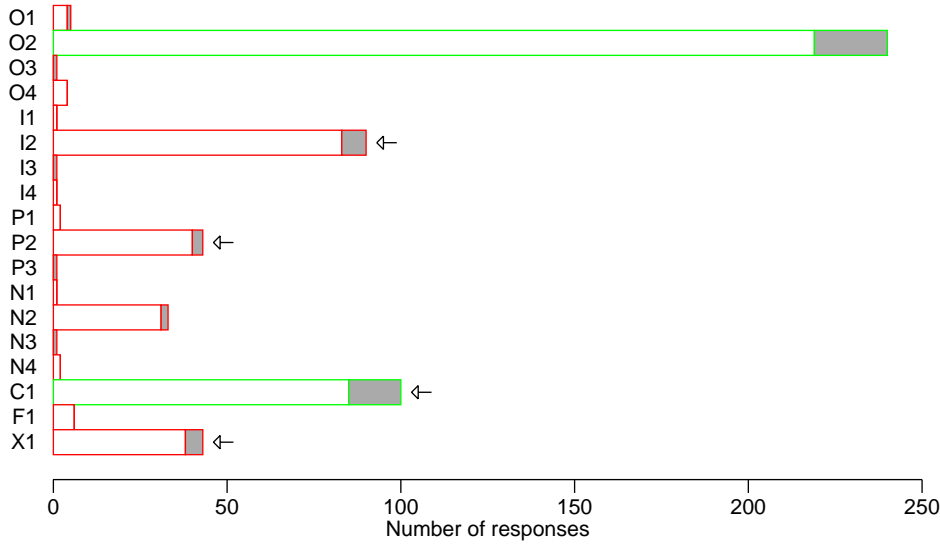
Correct
 Incorrect
 See comments

Technical Interpretation code

- T1 - Reactive to MTB
- T2 - Non-Reactive to MTB
- T3 - Indeterminate Response to MTB
- T4 - QC satisfactory
- T5 - QC unsatisfactory
- T6 - Sample transposition
- T7 - QC fail - PHA response poor
- T8 - Wrong Specimen type
- T9 - Sample mislabelling
- T10 - QC fail - High negative background
- T11 - Sample too old
- T12 - Sample over/under filled
- T13 - Repeat on same sample
- T14 - Repeat with new sample
- T15 - No Action

Clinical Interpretation

Your response : I2,P2,C1,X1
Designated response : O2,C1



Interferon Gamma
 Elispot
 Correct
 Incorrect
 See comments

Clinical Interpretation code

- O1 - Exposure: Consistent with exposure to TB
- O2 - Exposure: No evidence of exposure to TB
- O3 - Exposure: Internal QC failed
- O4 - Exposure: Equivocal TB response
- I1 - Illness: Consistent with exposure to TB
- I2 - Illness: No evidence of exposure to TB
- I3 - Illness: Internal QC failed
- I4 - Illness: Equivocal TB response
- P1 - Pre biologic: Consistent with exposure to TB
- P2 - Pre biologic: No evidence of exposure to TB
- P3 - Pre biologic: Internal QC failed
- P4 - Pre biologic: Equivocal TB response
- N1 - Insufficient details consistent with exposure to TB
- N2 - Insufficient details no evidence of exposure to TB
- N3 - Insufficient details internal QC failed
- N4 - Insufficient details equivocal TB response
- C1 - Clinical: Seek clinical advice
- F1 - Probably TB with false negative tests - seek clinical assessment
- X1 - Immunosuppressed: False negative can occur in Immunosuppressed

Comments :

The response rate was good for distribution 225 with 86 % (362/419) of participants submitting a result.

Qualitative and Quantitative results :

Sample 225-1 :

A negative qualitative response was reported by 357/362 of the laboratories that submitted a result for sample 225-1. One laboratory reported a positive result, and four laboratories reported an indeterminate result for this sample. Laboratories that are out of consensus should check their results.

Sample 225-2 :

A negative qualitative response was reported by 355/362 of the laboratories that submitted a result for sample 225-2. Four laboratories reported a positive result, and three laboratories reported an indeterminate result for this sample. Laboratories that are out of consensus should check their results.

Technical Interpretation :

Sample 225-1 :

There were 351 responses for sample 225-1 with 347 laboratories reporting comment (T2) Non-Reactive to MTB, 331 of these laboratories also reported (T4) QC satisfactory, and of these; 176 laboratories reported comment (T15) No action. Eleven laboratories did not submit a technical response.

Sample 225-2 :

There were 349 responses for sample 225-2 with 345 laboratories reporting comment (T2) Non-Reactive to MTB, 322 of these laboratories also reported (T4) QC satisfactory, and of these; 168 laboratories reported comment (T15) No action. Thirteen laboratories did not submit a technical response.

Clinical Interpretation :

Sample 225-1 :

For sample 225-1, there were 266 responses of which 242 laboratories submitted comment (O2) Exposure: No evidence of exposure to TB, 82 of these laboratories also reported comment (C1) Clinical: Seek clinical advice. Various other clinical comments were reported by laboratories and participants should review the iEQA case to assess if these are appropriate. 96/362 laboratories did not report a clinical interpretation for sample 225-1.

Sample 225-2 :

For sample 225-2, there were 264 responses of which 240 laboratories submitted comment (O2) Exposure: No evidence of exposure to TB, 86 of these laboratories also reported comment (C1) Clinical: Seek clinical advice. Various other clinical comments were reported by laboratories and participants should review the iEQA case to assess if these are appropriate. 98/362 laboratories did not report a clinical interpretation for sample 225-2.

The answers to iEQA cases 257 and 258 are now available. Please refer to these cases for more details about interpretation

Reminder :

Please remember you must register for the iEQA scheme to gain access to further clinical details. Participants registered for the UK NEQAS for Interferon Gamma Release Assays (Mycobacterium tuberculosis) are provided with free of charge access to iEQA for 1 user.

The next distribution (226) will be linked to the necessary clinical details on the UK NEQAS Immunology interpretative scheme (iEQA)

www.immqas.org.uk.

We would encourage any laboratory that is not currently registered for UK NEQAS Immunology interpretative scheme (iEQA) to contact us for further information. There is much useful educational material in the cases for both scientists and clinicians that highlight the importance of the correct use and interpretation of the assay.

