

UK NEQAS for H&I SCHEME 4B - ABO GROUPING BY DNA-BASED METHODS

METHODOLOGY

SAMPLES 4A1 01-05/2015 DESPATCHED ON 13TH JANUARY 2015

| Lab No. | Date received | Date tested | Method used | Source of Primers and Probes | | | Kit manufacturer | Detection method | Comments |
|---------|---------------|-------------|-------------|------------------------------|------------|-------|------------------|------------------|----------|
| | | | | Commercial Kits | Own Design | Other | | | |
| 16 | 14-Jan | 20-Jan | PCR-SSP | Yes | | | Innotrain | Gel | |
| 23 | 14-Jan | 21-Jan | PCR-SSP | | Yes | | | Gel | |
| 35 | 14-Jan | 20-Jan | PCR-SSP | Yes | | | Innotrain | Gel | |
| 62 | 14-Jan | 22-Jan | PCR-SSP | Yes | | | Innotrain | Gel | |
| 158 | 16-Jan | 26-Jan | PCR-SSP | Yes | | | Innotrain | Gel | |
| 161 | 14-Jan | 20-Jan | PCR-SSP | Yes | | | BAG | Gel | |
| 182 | 14-Jan | 15+16-Jan | PCR-SSP | | | Yes | Papers by Olsen | Gel | |

UK NEQAS for H&I SCHEME 4B - ABO DNA TYPING

ABO RESULTS OF PARTICIPATING LABORATORIES

SAMPLES 4A1 01-05/2015 DESPATCHED ON 13TH JANUARY 2015

Sample 4A1 01/15

| Lab No. | ABO allele | ABO allele | Comments |
|---------|----------------|----------------|----------|
| 16 | A ² | B | |
| 23 | A ² | B | |
| 35 | A ² | B | |
| 62 | A ² | B | |
| 158 | A ² | B | |
| 161 | A ² | B ¹ | |
| 182 | A ² | B | |

Sample 4A1 02/15

| Lab No. | ABO allele | ABO allele | Comments |
|---------|----------------|----------------|----------|
| 16 | O ¹ | O ¹ | |
| 23 | O ¹ | | |
| 35 | O ¹ | O ¹ | |
| 62 | O ¹ | O ¹ | |
| 158 | O ¹ | O ¹ | |
| 161 | O ¹ | O ¹ | |
| 182 | O ¹ | O ¹ | |

Sample 4A1 03/15

| Lab No. | ABO allele | ABO allele | Comments |
|---------|-----------------|-----------------|----------|
| 16 | O ¹ | O ¹ | |
| 23 | O ¹ | | |
| 35 | O ¹ | O ¹ | |
| 62 | O ¹ | O ¹ | |
| 158 | O ¹ | O ¹ | |
| 161 | O ^{1V} | O ^{1V} | |
| 182 | O ¹ | O ¹ | |

Sample 4A1 04/15

| Lab No. | ABO allele | ABO allele | Comments |
|---------|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16 | O ¹ | A ² | |
| 23 | O ¹ | A ² | |
| 35 | O ¹ | A ² | |
| 62 | O ¹ | A ² | |
| 158 | O ¹ | A ² | |
| 161 | O ^{1V} | A ² | |
| | O ¹ | A ² | Serological: A ₁ (A ₁ lectin reacts weak). In this case we would perform further identification using sequencing and ask questions about transfusion history. |
| 182 | | | |

Sample 4A1 05/15

| Lab No. | ABO allele | ABO allele | Comments |
|---------|----------------|----------------|----------|
| 16 | O ¹ | O ¹ | |
| 23 | O ¹ | | |
| 35 | O ¹ | O ¹ | |
| 62 | O ¹ | O ¹ | |
| 158 | O ¹ | O ¹ | |
| 161 | O ¹ | O ¹ | |
| 182 | O ¹ | O ¹ | |