

Certificate of Analysis

Product: Extended IV Control	Cat.No. 213286	Lot No.: QCX025012	Expiration date: 2025-07-05
----------------------------------------	--------------------------	------------------------------	---------------------------------------

Origin: human erythrocytes from blood group A2B, A, B and O
Manufacturing Date: 20 MAY 2025
Preservative: Neomycin & Chloramphenicol
Storage: 2-8 °C
Manufacturing size: 4 x 6 ml

Criterion	Method	Specification	Results
Tube QCX1, lot QCX125012			
Specificity	Blood group testing by DG Gel	Blood group A2B CcD.Ee, K positive	Blood group A2B CcD.Ee, K positive
	Blood group testing by tube technique	Blood group A2B CcD.Ee, K positive	Blood group A2B CcD.Ee, K positive
	Reverse-Typing by DG Gel	A ₁ cells: negative A ₂ cells: negative B cells: negative O cells: negative	A ₁ cells: negative A ₂ cells: negative B cells: negative O cells: negative
	Reverse-Typing by tube technique	A ₁ cells: negative A ₂ cells: negative B cells: negative O cells: negative	A ₁ cells: negative A ₂ cells: negative B cells: negative O cells: negative
	Direct Antiglobulin Test by DG Gel at release	negative	negative
	Direct Antiglobulin Test by tube technique at release	negative	negative
Antibody screening	IAT Test by DG Gel with Screen-Cyte cells	Screen-Cyte cells: negative	Screen-Cyte cells: negative
	IAT test by tube technique with Screen-Cyte cells	Screen-Cyte cells: negative	Screen-Cyte cells: negative
Concentration of suspension	Determination of Hematocrit	15.0 ± 2.0 %	13.8 %
Hemolysis at release	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.01 AU

Tube QCX2, lot QCX225012			
Specificity	Blood group testing by DG Gel	Blood group A CC ^w D. ee, Fy ^a negative	Blood group A CC ^w D. ee, Fy ^a negative
	Blood group testing by tube technique	Blood group A CC ^w D. ee, Fy ^a negative	Blood group A CC ^w D. ee, Fy ^a negative
	Reverse-Typing by DG Gel	A ₁ cells: negative A ₂ cells: negative B cells: positive O cells: negative	A ₁ cells: negative A ₂ cells: negative B cells: positive O cells: negative
	Reverse-Typing by tube technique	A ₁ cells: negative A ₂ cells: negative B cells: positive O cells: negative	A ₁ cells: negative A ₂ cells: negative B cells: positive O cells: negative
	Direct Antiglobulin Test by DG Gel at release	negative	negative
	Direct Antiglobulin Test by tube technique at release	negative	negative
Fy ^a Antibody screening	IAT test by DG Gel with Screen-Cyte	Screening cells Fy ^a positive: positive Screening cells Fy ^a negative: negative	Screening cells Fy ^a positive: positive Screening cells Fy ^a negative: negative
	IAT test by tube technique with Screen-Cyte cells	Screening cells Fy ^a positive: positive Screening cells Fy ^a negative: negative	Screening cells Fy ^a positive: positive Screening cells Fy ^a negative: negative
Concentration of suspension	Determination of Hematocrit	15.0 ± 2.0 %	13.8 %
Hemolysis after filling	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.02 AU
Tube QCX3, lot QCX325012			
Specificity	Blood group testing by DG Gel	Blood group B ccD.EE	Blood group B ccD.EE
	Blood group testing by tube technique	Blood group B ccD.EE	Blood group B ccD.EE
	Reverse-Typing by DG Gel	A ₁ cells: positive A ₂ cells: positive B cells: negative O cells: negative	A ₁ cells: positive A ₂ cells: positive B cells: negative O cells: negative
	Reverse-Typing by tube technique	A ₁ cells: positive A ₂ cells: positive B cells: negative O cells: negative	A ₁ cells: positive A ₂ cells: positive B cells: negative O cells: negative
	Direct Antiglobulin Test by DG Gel at release	negative	negative
	Direct Antiglobulin Test by tube technique at release	negative	negative
Antibody screening	IAT Test by DG Gel with Screen-Cyte cells	Screen-Cyte cells: negative	Screen-Cyte cells: negative
	IAT test by tube technique with Screen-Cyte cells	Screen-Cyte cells: negative	Screen-Cyte cells: negative
Concentration of suspension	Determination of Hematocrit	15.0 ± 2.0 %	15.2 %
Hemolysis after filling	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.01 AU

Tube QCX4, lot QCX425012			
Specificity	Blood group testing by DG Gel	Blood group O ccddee, K negative	Blood group O ccddee, K negative
	Blood group testing by tube technique	Blood group O ccddee, K negative	Blood group O ccddee, K negative
	Reverse-Typing by DG Gel	A ₁ cells: positive A ₂ cells: positive B cells: positive O cells: negative	A ₁ cells: positive A ₂ cells: positive B cells: positive O cells: negative
	Reverse-Typing by tube technique	A ₁ cells: positive A ₂ cells: positive B cells: positive O cells: negative	A ₁ cells: positive A ₂ cells: positive B cells: positive O cells: negative
	Direct Antiglobulin Test by DG Gel at release	negative	negative
	Direct Antiglobulin Test by tube technique at release	negative	negative
D Antibody screening	IAT test by DG Gel IgG	Ror cells: minimum weak positive R ₁ R ₁ cells: minimum weak positive R ₂ R ₂ cells: minimum weak positive rr cells: negative	Ror cells: minimum weak positive R ₁ R ₁ cells: minimum weak positive R ₂ R ₂ cells: minimum weak positive rr cells: negative
	IAT test by tube technique	Ror cells: minimum weak positive R ₁ R ₁ cells: minimum weak positive R ₂ R ₂ cells: minimum weak positive rr cells: negative	Ror cells: minimum weak positive R ₁ R ₁ cells: minimum weak positive R ₂ R ₂ cells: minimum weak positive rr cells: negative
Concentration of suspension	Determination of Hematocrit	15.0 ± 2.0 %	15.0 %
Hemolysis after filling	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.01 AU

The product passed the internal Quality Control procedure.

All human source material used in the manufacture of this product were tested and found negative for HBsAg and antibodies to HCV, HIV-1/ HIV-2.

Date: 22 May 2025



Sascha Feuerhahn
Technical Director

Medion Grifols Diagnostics AG in Düringen, Switzerland, is certified according to EN ISO 13485.