

Certificate of Analysis

Product: Essential II Control	Cat.No. 213287-71	Lot No.: QCS024006	Expiration date: 2024-04-13
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Origin: human erythrocytes from blood group A and B

Manufacturing Date: 27 FEB 2024

Preservative: Neomycin & Chloramphenicol

Storage: 2-8 °C

Manufacturing size: 2 x 2 x 6 ml

Criterion	Method	Specification	Results
Tube QCS1, lot QCS124006			
Specificity	Blood group testing by DG Gel	Blood group A ccddee, K positive	Blood group A ccddee, K positive
	Blood group testing by tube technique	Blood group A ccddee, K positive	Blood group A ccddee, K positive
	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
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 %	14.9 %
Hemolysis at release	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.022 AU

Tube QCS2, lot QCS224006			
Specificity	Blood group testing by DG Gel	Blood group B CcD.Ee, K negative, Fy ^a negative	Blood group B CcD.Ee, K negative, Fy ^a negative
	Blood group testing by tube technique	Blood group B CcD.Ee, K negative	Blood group B CcD.Ee, K negative
	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
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 %	14.7 %
Hemolysis after filling	Optical Density at 540nm	Absorbance ≤ 1.0 AU	Absorbance 0.035 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: 1 March 2024



Sascha Feuerhahn
Technical Director

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