



GEL CARDS



Fortress
Diagnostics

Gel Cards

Gel cards, also known as gel columns or gel centrifugation cards, are used primarily in immunohematology for blood typing and cross-matching in transfusion medicine. This technology provides a method for detecting and identifying blood group antigens and antibodies.

Gel cards contain microtubes filled with a gel matrix that acts as a sieve. The principle behind their operation involves the separation of red blood cells (RBCs) and agglutinates (clumps) based on size during centrifugation. The gel matrix can be infused with specific reagents, such as antibodies, to facilitate the detection of antigens or antibodies in the blood sample. Fortress' high-quality blood gel cards are accurate, easy to use, competitively priced, and conveniently offered in different sizes in order to meet the needs of our distributors, blood banks, clinics, hospital laboratories and transfusion centres across the world.

Key Features & Benefits



Reduced working time: The gel card method vastly reduces preparation time due to multi testing and no requirement for washing steps.



Accurate results: Fortress Diagnostics gel cards are proven to provide accurate results in minimal time.



Cost effective: Fortress Diagnostics supply gel cards at a competitive price promoting this method as an innovative solution in preference to conventional methods.



Complete solutions: One test provides comprehensive results for blood grouping compared to multiple tests in conventional tube methods.

Ordering Information

Forward Group 1

- Identifies ABO and Rh D groups by using gel method.
- One card involves 2 tests.
- Includes control well.

A	B	D	Ctrl	A	B	D	Ctrl
---	---	---	------	---	---	---	------

Description	Cat No.	Size	Storage
Forward Group 1	BGGCFG01-12	12 Tests	2-8°C
Forward Group 1	BGGCFG01-24	24 Tests	2-8°C
Forward Group 1	BGGCFG01-48	48 Tests	2-8°C

Forward Group 2

- Identifies ABO and Rh D groups by using gel method.
- One card involves 2 tests.
- Does not include control well, instead includes AB.

A	B	AB	D	A	B	AB	D
---	---	----	---	---	---	----	---

Description	Cat No.	Size	Storage
Forward Group 2	BGGCFG02-12	12 Tests	2-8°C
Forward Group 2	BGGCFG02-24	24 Tests	2-8°C
Forward Group 2	BGGCFG02-48	48 Tests	2-8°C

Forward Group 3

- Provides the detection of subgroups of A and variants of D on the same gel card.
- Identifies DVI- weak reactive and partial variants of D but not the VI variant of D directly.
- Identifies DVI+ reactive, variant of DVI includes D variants and weak D's.
- Identifies the erythrocytes of antibody Rh DVI directly.

A	A1	B	AB	DVI-	DVI+	CDE	Ctrl
---	----	---	----	------	------	-----	------

Description	Cat No.	Size	Storage
Forward Group 3	BGGCFG03-12	12 Tests	2-8°C
Forward Group 3	BGGCFG03-24	24 Tests	2-8°C
Forward Group 3	BGGCFG03-48	48 Tests	2-8°C

Forward & Reverse Grouping

- Provides the detection of ABO, Rh D, Rh D VI ve reverse grouping on one gel card.
 - Identifies DVI- weak reactive and partial variants of D but not the VI variant of D directly.
 - Identifies DVI+ reactive, variant of DVI includes D variants and weak D's.
 - Identifies the erythrocytes of antibody Rh DVI directly.
- At the last two wells A1 and B cells are used for reverse apply.

A	B	AB	DVI-	DVI+	Ctrl	A1 _{cell}	B _{cell}
---	---	----	------	------	------	--------------------	-------------------

Description	Cat No.	Size	Storage
Forward & Reverse Grouping	BGGCFRG1-12	12 Tests	2-8°C
Forward & Reverse Grouping	BGGCFRG1-24	24 Tests	2-8°C
Forward & Reverse Grouping	BGGCFRG1-48	48 Tests	2-8°C

Neonatal Grouping

- Provides applying of ABO, Rh D, Rh D VI and direct Coombs test on newborns on one gel card.
- AHG well involves Polyclonal anti-IgG and monoclonal C3 antibodies, IgG well involves monospecific Anti-IgG antibodies.

A	B	AB	DVI-	DVI+	Ctl	AHG	IgE
---	---	----	------	------	-----	-----	-----

Description	Cat No.	Size	Storage
Neonatal Grouping	BGGCNEOG-12	12 Tests	2-8°C
Neonatal Grouping	BGGCNEOG-24	24 Tests	2-8°C
Neonatal Grouping	BGGCNEOG-48	48 Tests	2-8°C

Neutral Gel

- Provides applying of reverse grouping, antibody screening and determining, compatibility tests.

NEUT	NEUT	NEUT	NEUT	NEUT	NEUT	NEUT	NEUT
------	------	------	------	------	------	------	------

Description	Cat No.	Size	Storage
Neutral Gel	BGGCNGEL-12	12 Tests	2-8°C
Neutral Gel	BGGCNGEL-24	24 Tests	2-8°C
Neutral Gel	BGGCNGEL-48	48 Tests	2-8°C

Comp Tests

- The gel card for forward grouping and Cross-match.
- Provides detection of ABO, Rh mismatch, the existence of antibodies that are against donors erythrocytes in patients serum or the patients erythrocytes in donors serum.

A	B	D	Ctl	Enz Major	Enz Minor	AHG	AHG Ctl
---	---	---	-----	-----------	-----------	-----	---------

Description	Cat No.	Size	Storage
Comp Tests	BGGCFCT1-12	12 Tests	2-8°C
Comp Tests	BGGCFCT1-24	24 Tests	2-8°C
Comp Tests	BGGCFCT1-48	48 Tests	2-8°C

DAT Screen

- Provides determining the erythrocytes that get sensitive as in-vivo with IgG or complement C3d.
- Involves IgG well monospecific Anti-IgG, C3d well Anti human C3, AHG well Polyspecific anti-human globulin.

IgG	C3d	AHG	Ctl	IgG	C3d	AHG	Ctl
-----	-----	-----	-----	-----	-----	-----	-----

Description	Cat No.	Size	Storage
DAT Screen	BGGCDATS-12	12 Tests	2-8°C
DAT Screen	BGGCDATS-24	24 Tests	2-8°C
DAT Screen	BGGCDATS-48	48 Tests	2-8°C

Rh Phenotype +K

- Provides identifying of Rh and K antibodies which have clinical importance by gel method.

C	c	E	e	K	DVI-	DVI+	Ctl
---	---	---	---	---	------	------	-----

Description	Cat No.	Size	Storage
Rh Phenotype +K	BGGCRHPK-12	12 Tests	2-8°C
Rh Phenotype +K	BGGCRHPK-24	24 Tests	2-8°C
Rh Phenotype +K	BGGCRHPK-48	48 Tests	2-8°C

A Subgroup

- This test provides identifying of A1 antibody inside erythrocytes by using gel method.

A1	A1	A1	A1	A1	A1	A1	A1
----	----	----	----	----	----	----	----

Description	Cat No.	Size	Storage
A Subgroup	BGGCASUB-12	12 Tests	2-8°C
A Subgroup	BGGCASUB-24	24 Tests	2-8°C
A Subgroup	BGGCASUB-48	48 Tests	2-8°C

AHG Gel

- Provides applying of Coombs test (DAT) directly, Coombs test (IAT), compatibility, antibody screening and determining tests indirectly.
- All wells include Polyspecific anti-human globulin.

AHG	AHG	AHG	AHG	AHG	AHG	AHG	AHG
-----	-----	-----	-----	-----	-----	-----	-----

Description	Cat No.	Size	Storage
AHG Gel	BGGCAHGG-12	12 Tests	2-8°C
AHG Gel	BGGCAHGG-24	24 Tests	2-8°C
AHG Gel	BGGCAHGG-48	48 Tests	2-8°C

Neutral/AHG Gel

- Provides applying of Indirect Coombs test (IAT), compatibility, antibody screening and determining tests indirectly.

NEUT	NEUT	NEUT	NEUT	AHG	AHG	AHG	AHG
------	------	------	------	-----	-----	-----	-----

Description	Cat No.	Size	Storage
Neutral/AHG Gel	BGGCNAHG-12	12 Tests	2-8°C
Neutral/AHG Gel	BGGCNAHG-24	24 Tests	2-8°C
Neutral/AHG Gel	BGGCNAHG-48	48 Tests	2-8°C



**Fortress
Diagnostics**



9A, The Technology Park, Antrim,
United Kingdom, BT41 1QS



+44 (0)28 9448 7676



info@fortressdiagnostics.com



fortressdiagnostics.com



BR012FOROCT24

Copyright © 2024 Fortress Diagnostics Ltd. All rights reserved. VAT No.: GB 424802023. Product availability may vary from country to country and some products may be for Research Use Only (RUO). For more information on product application or availability, please contact us.