





SPC

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Purity and Safety

Portability

Innovation and Services





Overview

Introduction

Entering new phases of life can bring challenges that may affect his FVIII treatment^{2,3}

• Dealing with a chronic disease²

- Becoming one's own caregiver²
- Achieving independence²

Phases of transition^{2,3}



Building relationships



Reliability

Portability

Innovation and Services

Summary



Overview

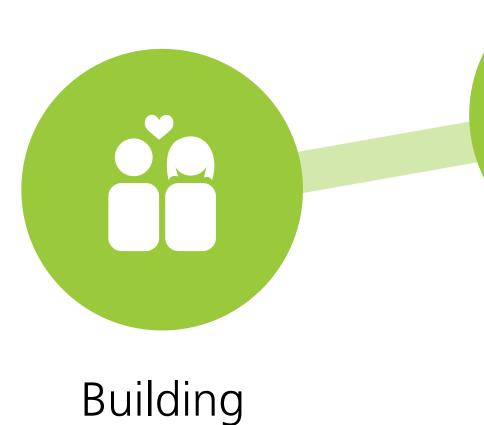
Introductio

Entering new phases of life can bring challenges that may affect his FVIII treatment^{2,3}

• Dealing with a chronic disease²

- Becoming one's own caregiver²
- Achieving independence²

Phases of transition^{2,3}



relationships

Graduating from school



N		

Portability



Innovation and Services

Summary

family



His changing world demands a FVIII that supports him

NovoEight[®], the **first new rFVIII** molecule in over a decade,^{1,4–9} is deliberately designed for:

RELIABILITY

to support his health





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Reliability	Purity and Safety

Portability

PURITY AND SAFETY

to give him peace of mind



Innovation and Services

Summary

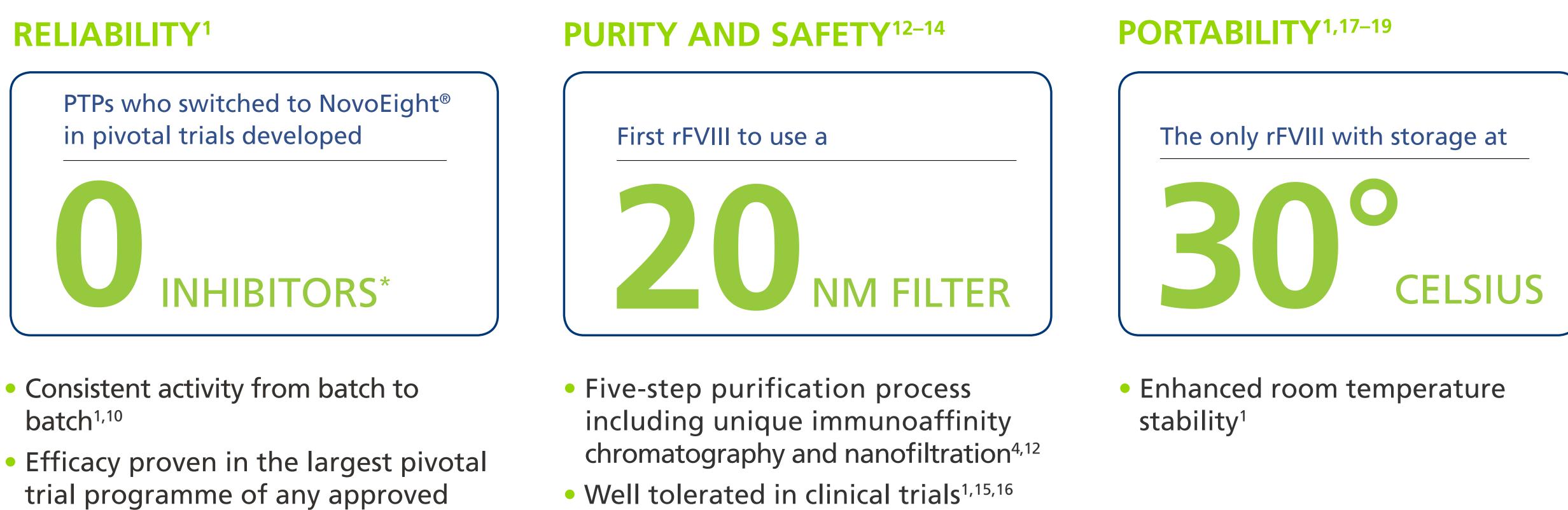
PORTABILITY

to support his independence



His changing world demands a FVIII that supports him

NovoEight[®], the **first new rFVIII** molecule in over a decade,^{1,4–9} is deliberately designed for:



- rFVIII (N=213)^{1,11}

PTP=previously treated patient.

Monitor patients taking NovoEight[®] for inhibitor formation.^{1,20}



on	Reliability	Purity and Safety

Portability

*Patients with previous inhibitors were excluded from the trials. Individuals with haemophilia A may develop inhibitors to FVIII.

Innovation and Services

Summary



Reliability

His changing world demands a FVIII that supports him

Patients entering new phases of life require support and stability^{2,3,21}

RELIABILITY¹ to support his health

PURITY AND SAFETY^{12–14} to give him peace of mind

PORTABILITY¹ to support his independence





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Portability

Innovation and Services





Lino, 27 years old; Lawrence, 19 years old; Blerim, 24 years old; Michel, 30 years old; and Julian, 25 years old. They live with haemophilia A.

Summary



Entering new phases of life can bring challenges that may affect his FVIII treatment^{2,3}

- Dealing with a chronic disease²
- Becoming one's own caregiver²
- Achieving independence²

Introduction

Phases of transition^{2,3}



Building relationships



Innovation and Services

Summary

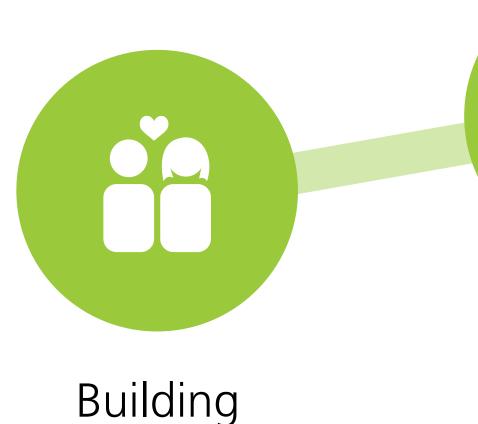


Entering new phases of life can bring challenges that may affect his FVIII treatment^{2,3}

- Dealing with a chronic disease²
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Introduction

Phases of transition^{2,3}



relationships

Graduating from school



Innovation and Services



Summary

family



Entering new phases of life can bring challenges that may affect his FVIII treatment^{2,3}

- Dealing with a chronic disease²
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Introduction

Patients in transition require support and stability^{2,3,21}

RELIABILITY¹ to support his health





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PURITY AND SAFETY^{10–12} to give him peace of mind

Summary

PORTABILITY¹ to support his independence



NovoEight[®] is deliberately designed for reliability

• Consistent activity from batch to batch^{1,10}

Introduction

• Efficacy proven in the largest pivotal trial programme of any approved rFVIII (N=213)^{1,11}



PTP=previously treated patient.

*Patients with previous inhibitors were excluded from the trials. Individuals with haemophilia A may develop inhibitors to FVIII. Monitor patients taking NovoEight[®] for inhibitor formation.^{1,20}



Portability

Innovation and Services



Michel, 30 years old, works as a purchaser and loves to ride his motorbike. Michel lives with haemophilia A.

Summary



The performance of NovoEight[®] was proven in the largest pivotal trial programme of any approved rFVIII^{1,11}

The guardian[™]1 and guardian[™]3 clinical trials studied performance in **213 PTPs**^{1,11}*

FVIII	Number of patients	Number of inhibitors
NovoEight®	213	0
Second-generation full-length	73	0
Third-generation full-length	108	1
Third-generation B-domain deleted	204	3



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PTP=previously treated patient.

- or 25–60 IU/kg three times weekly.^{1,20}
- and other parameters.^{1,11,20}





*The studies included 213 exposed patients with severe haemophilia A defined as FVIII activity $\leq 1\%$; 150 adolescent or adult patients without inhibitors \geq 12 years of age (\geq 150 exposure days) received 20–40 IU/kg of NovoEight[®] every second day or 20–50 IU/kg three times weekly; 63 paediatric patients without inhibitors <12 years of age (≥50 exposure days) received 25–50 IU/kg of NovoEight[®] every second day

⁺Not head-to-head trials. All trials required \geq 50 exposure days and excluded patients with a history of inhibitors (>0.6 BU or >1.0 BU). This table is not intended to imply a benefit in terms of efficacy or safety for any one product. Trials cannot be directly compared due to different design, duration, study population, inhibitor testing frequency



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INHIBITORS detected in all PTPs who switched to NovoEight[®] in pivotal trials[‡]

[‡]Patients with previous inhibitors were excluded from the trials. Individuals with haemophilia A may develop inhibitors to FVIII. Monitor patients taking NovoEight[®] for inhibitor formation.^{1,20}

PTP=previously treated patient.

- or 25–60 IU/kg three times weekly.^{1,20}
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Reliability

NovoEight[®] delivered consistent performance in adults, adolescents and children^{15,16,20}

Results from guardian[™]1 and guardian[™]3^{15,16,20}

Haemostatic success rate*

Bleeds resolved with 1–2 injections





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Innovation and Services

guardian™1 Adolescents & adults aged 12–65 | N=150

guardian™3 Children aged 0–11 | N=63

> *Haemostatic response rated as "excellent" or "good" was considered treatment success. If haemostatic response was rated as "moderate" or "none," the treatment was counted as a failure. Missing data were included in the treatment failure category.



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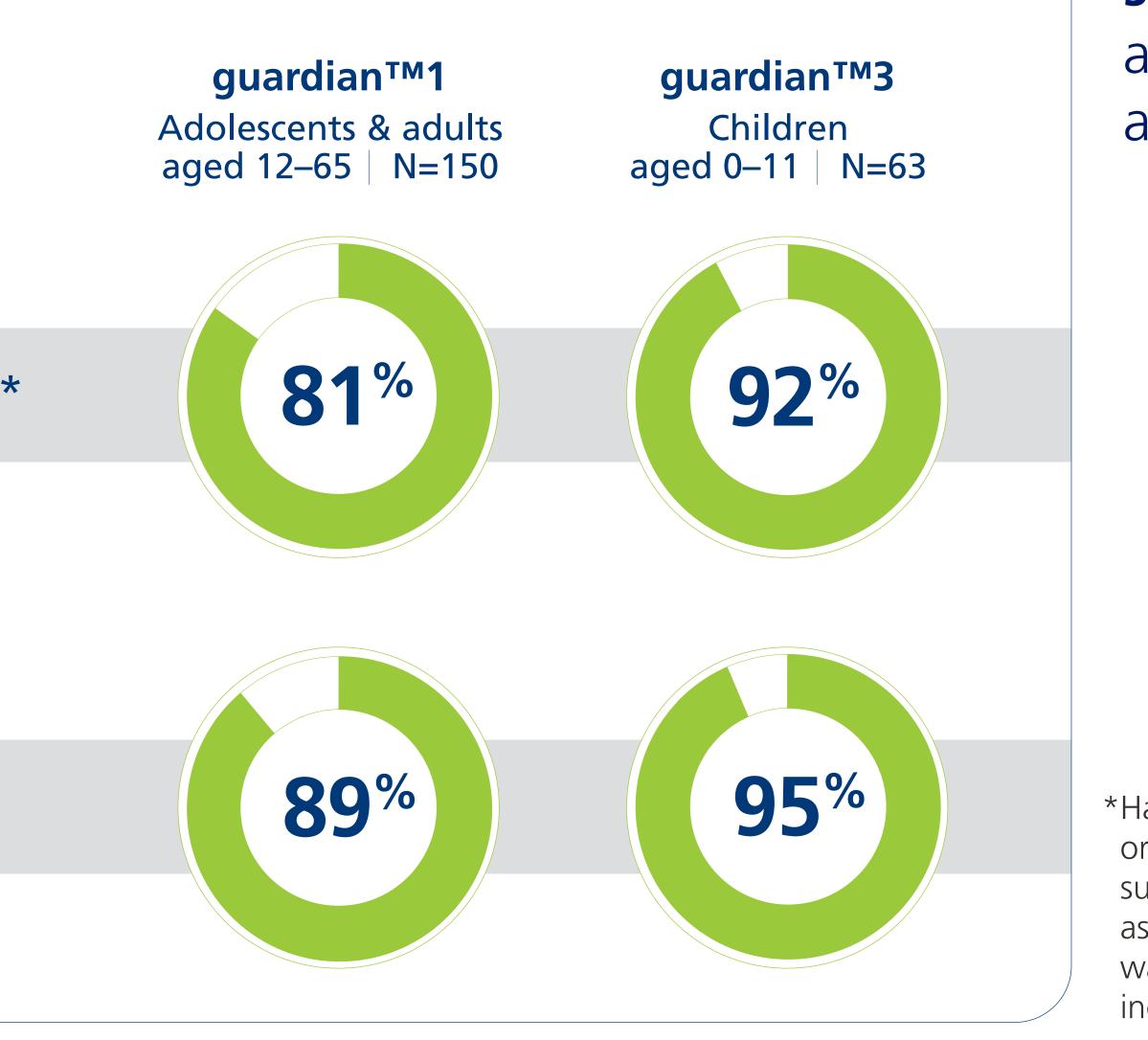




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Innovation and Services



100% haemostatic

success rate in major and minor surgeries in adolescents and adults¹

*Haemostatic response rated as "excellent" or "good" was considered treatment success. If haemostatic response was rated as "moderate" or "none," the treatment was counted as a failure. Missing data were included in the treatment failure category.



NovoEight® is the first new molecule in over a decade^{1,4–9}



1999 moroctocog alfa: 1st B-domain deleted rFVIII

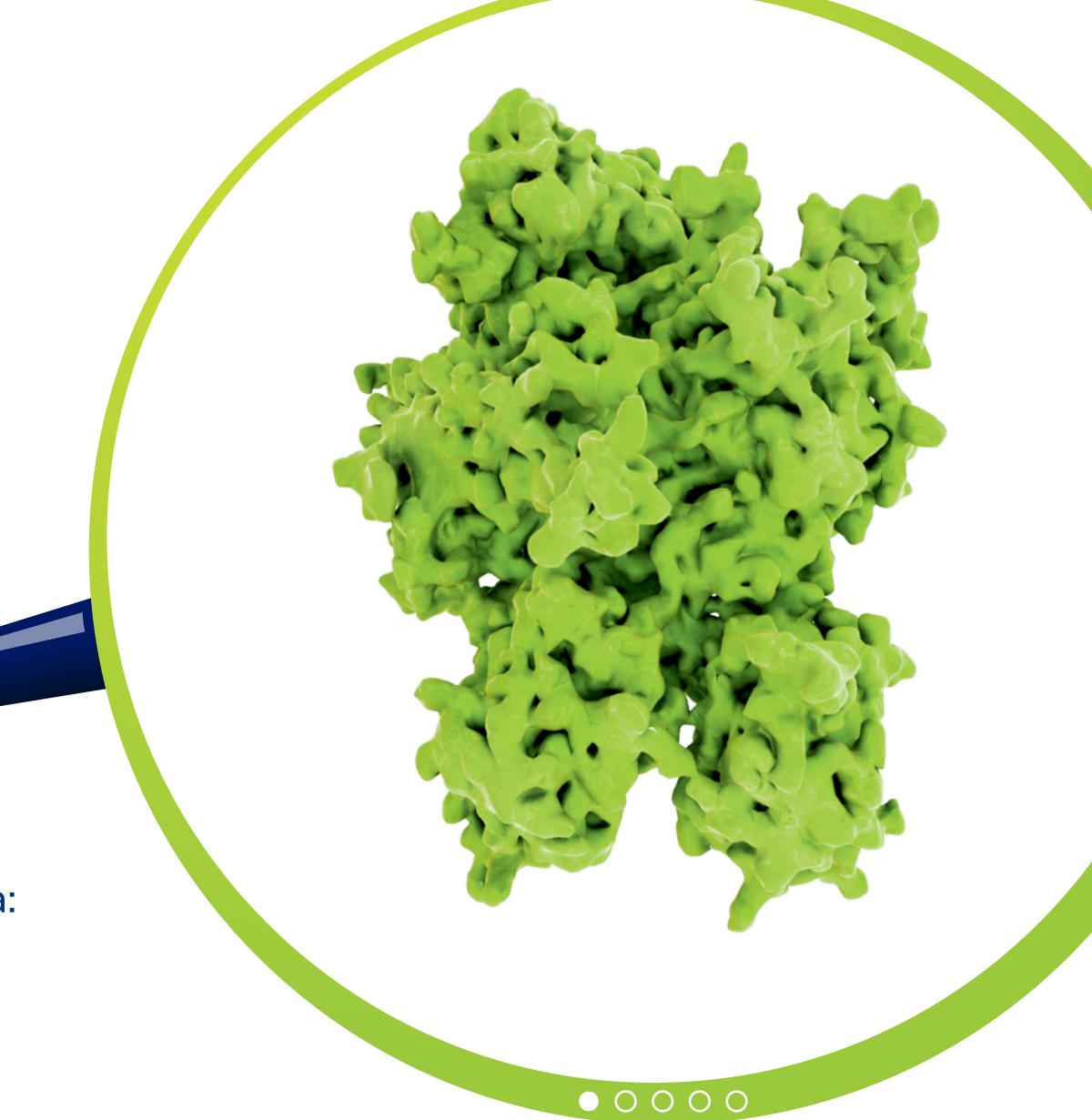




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Reliability

Innovation and Services



Summary

Today

NovoEight®: 1st fully tyrosine sulphated rFVIII^{4,25}



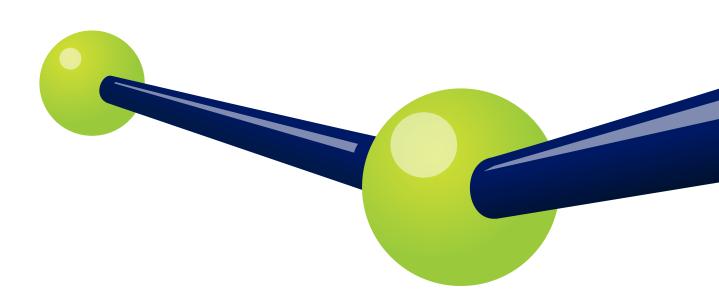
Reliability

NovoEight[®] is the only approved rFVIII with full tyrosine sulphation at Tyr-1680^{1,4,25}

NovoEight®

• Essential for high-affinity binding to vWF²⁶

• NovoEight[®] has complete vWF binding^{10,25}*



vWF=von Willebrand factor. *≥99% of circulating FVIII bound to vWF.¹⁰



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Innovation and Services

D domain of vWF

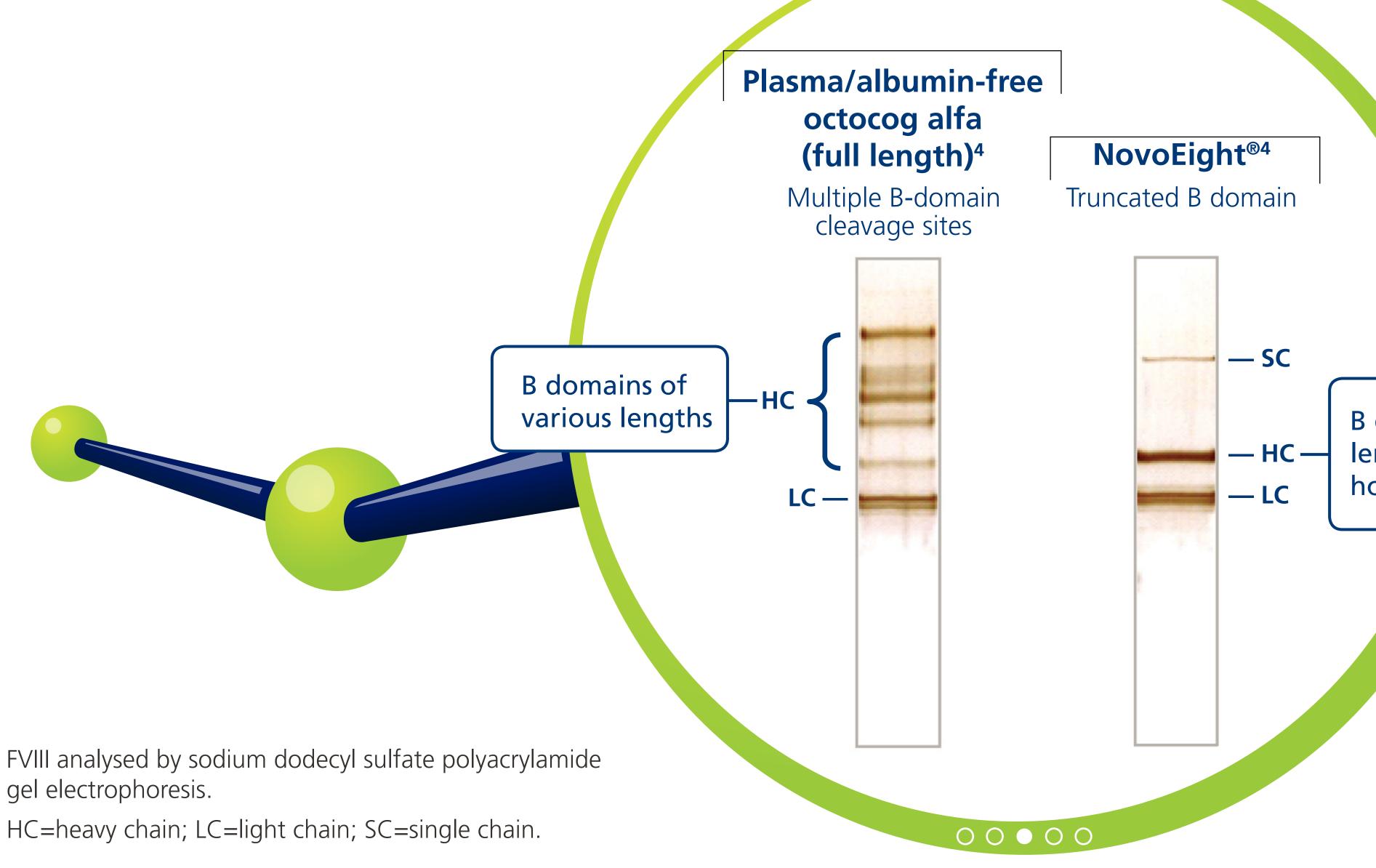
g to vWF²⁶ nding^{10,25}*

Summary

FVIII binding to vWF is critical to protect FVIII from premature clearance and degradation^{25–28}



NovoEight[®] is B-domain truncated for a homogeneous product^{1,4}



gel electrophoresis.



Reliability

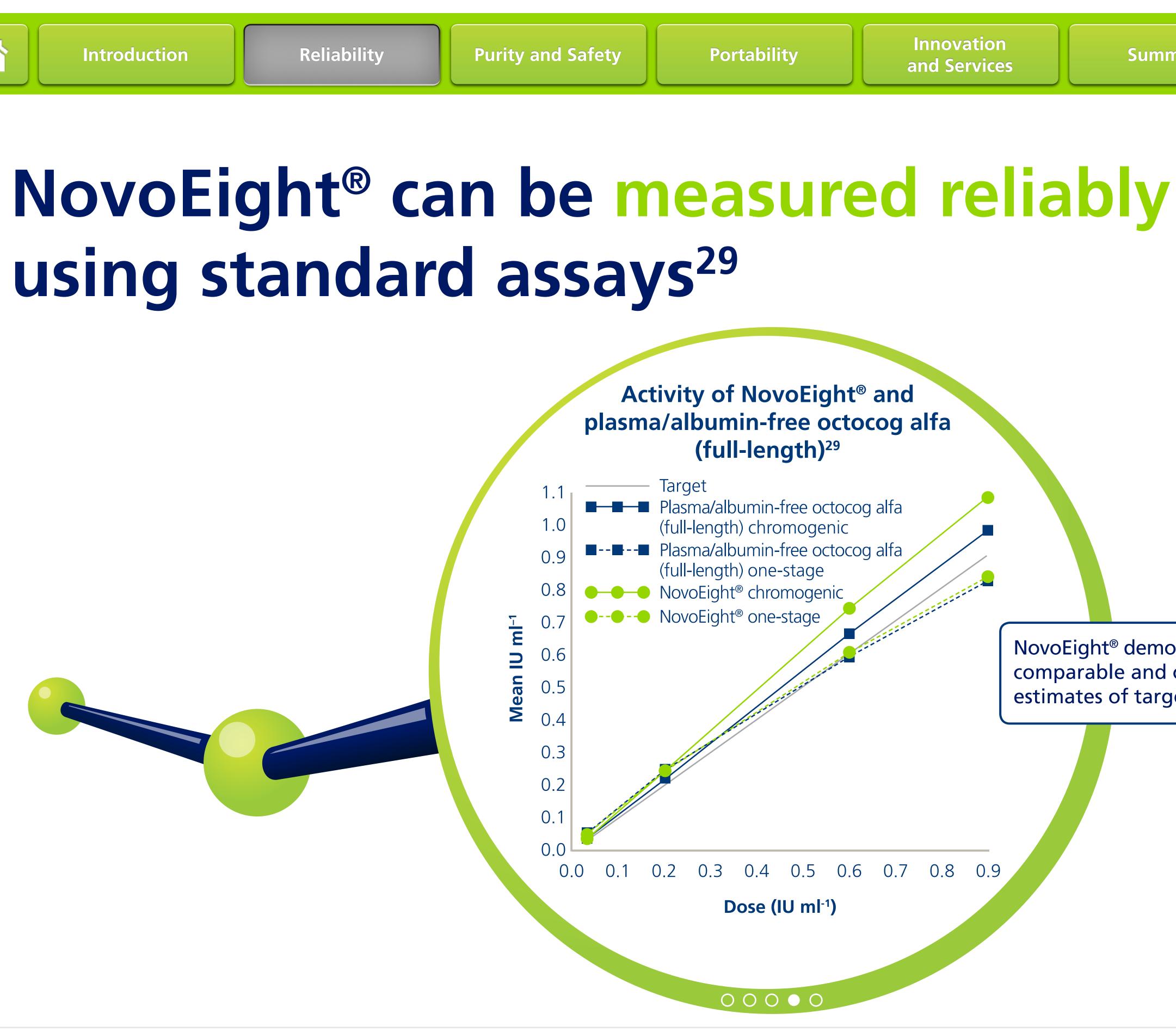
Innovation and Services

Summary



B domains of consistent length mean greater homogeneity









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Summary

NovoEight[®] demonstrated comparable and consistent estimates of target values²⁹



Reliability

NovoEight[®] can be reliably measured using standard assays

Mean IU ml⁻¹

	large
	Plasm
	Plasm
	NI

NovoEight[®] chromogenic

•-- NovoEight[®] one-stage





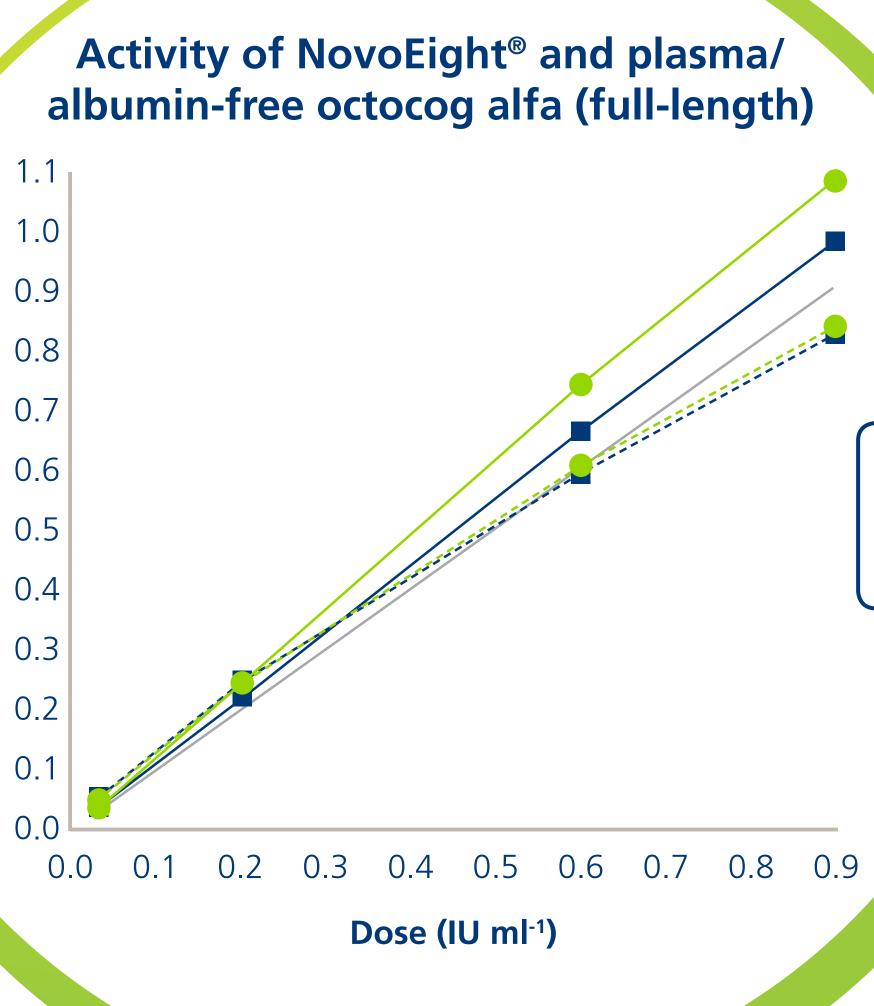


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Innovation and Services

na/albumin-free octocog alfa (full-length) chromogenic na/albumin-free octocog alfa (full-length) one-stage



Summary

NovoEight[®] demonstrated comparable and consistent estimates of target values²⁹



NovoEight[®] demonstrated consistent activity from batch to batch^{1,10}







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Portability

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Innovation and Services

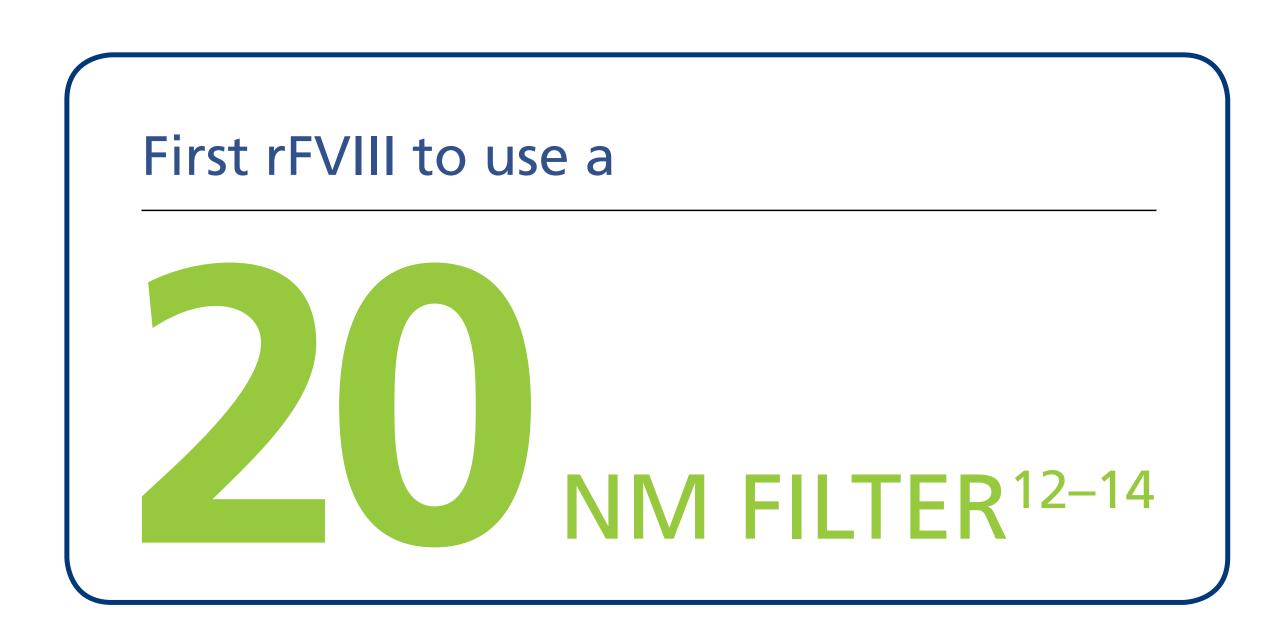
Summary



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NovoEight[®] is designed to take purity and safety a step forward

- Five-step purification process including unique immunoaffinity chromatography and nanofiltration^{4,12}
- Well tolerated in clinical trials^{1,15,16}







Portability

Innovation and Services



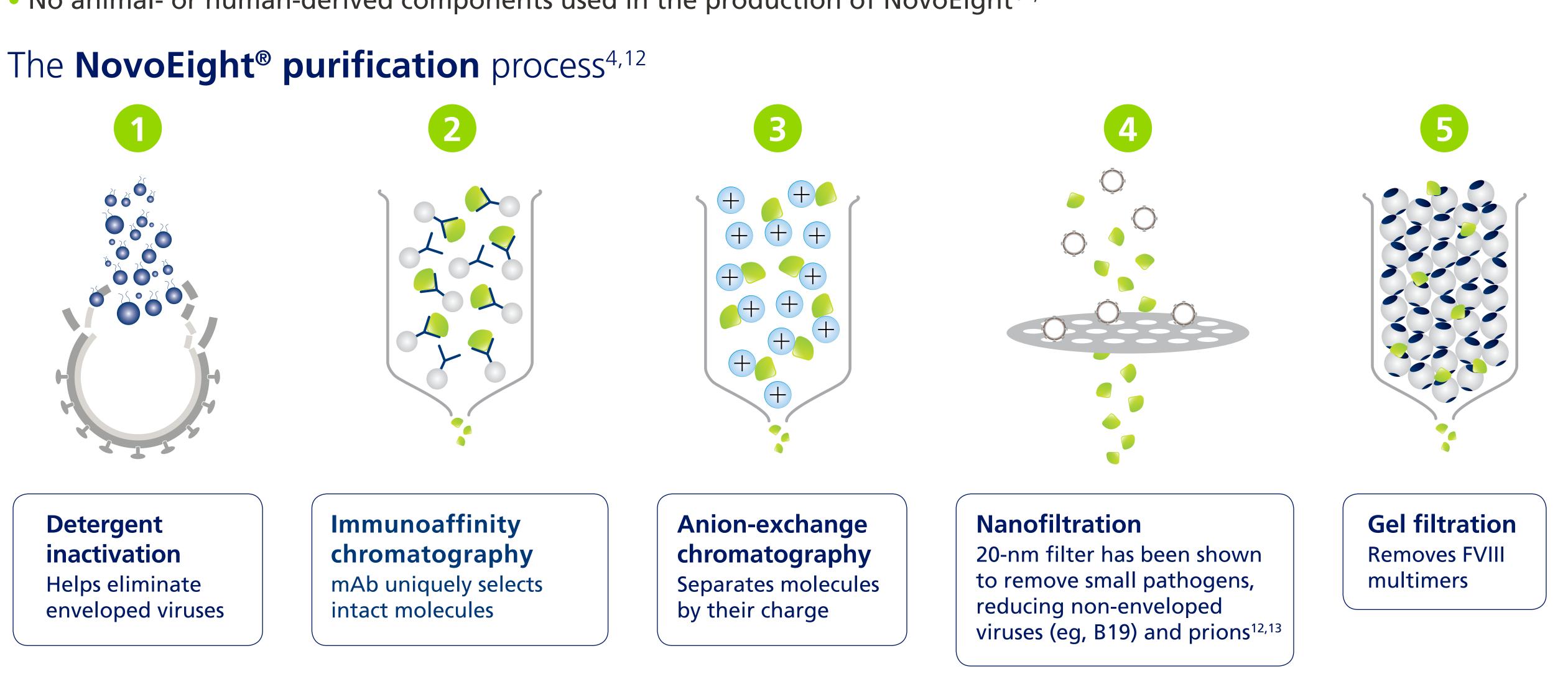
Lino, 27 years old, works as a social security specialist and travels every weekend to play clarinet in the orchestra. Lino lives with haemophilia A.



NovoEight® is the first rFVIII to use a 20-nm filter¹²⁻¹⁴

• No animal- or human-derived components used in the production of NovoEight^{®1,4}

Introduction



mAb=monoclonal antibody.



Innovation and Services

Summary

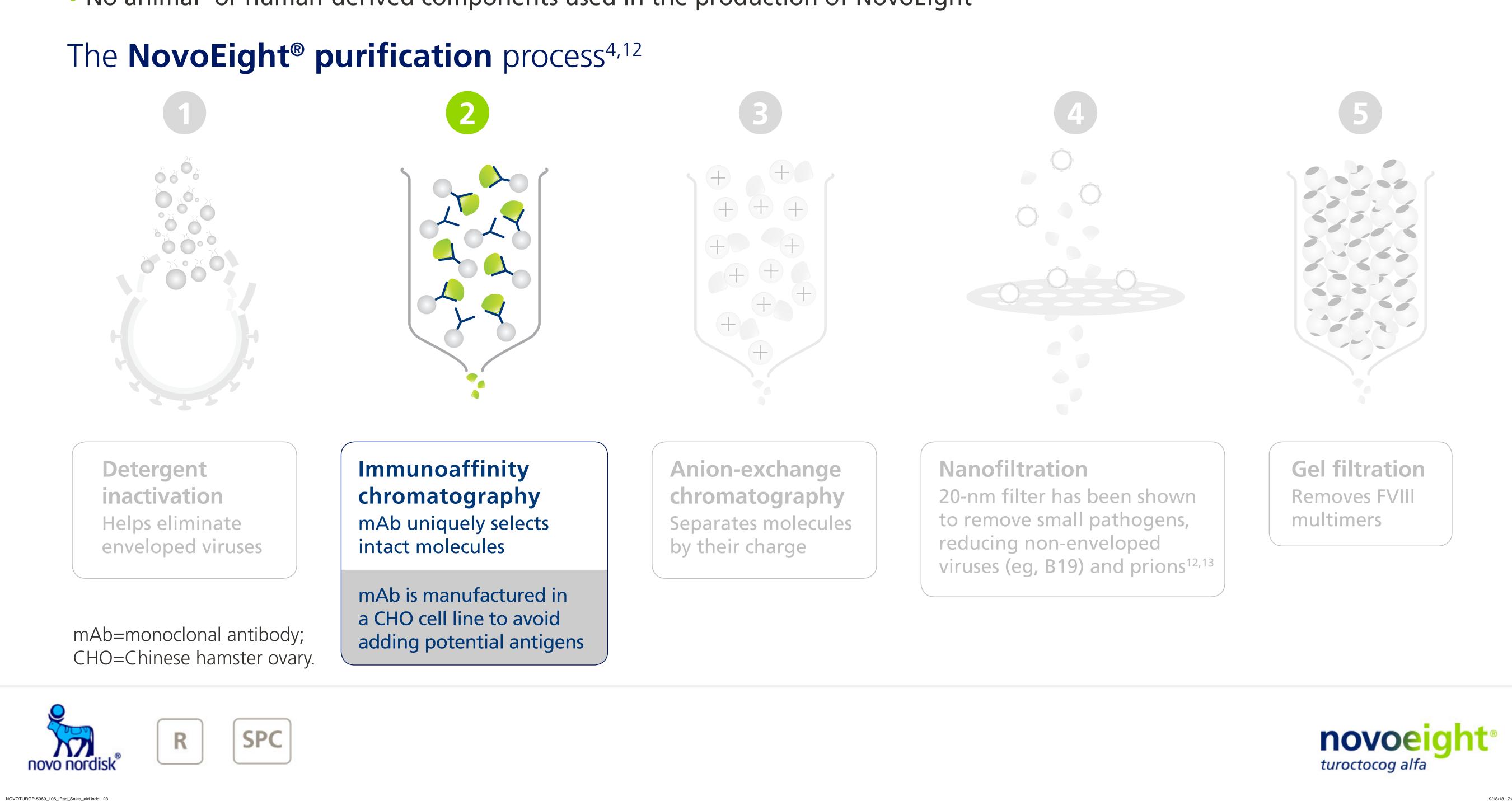


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Introduction

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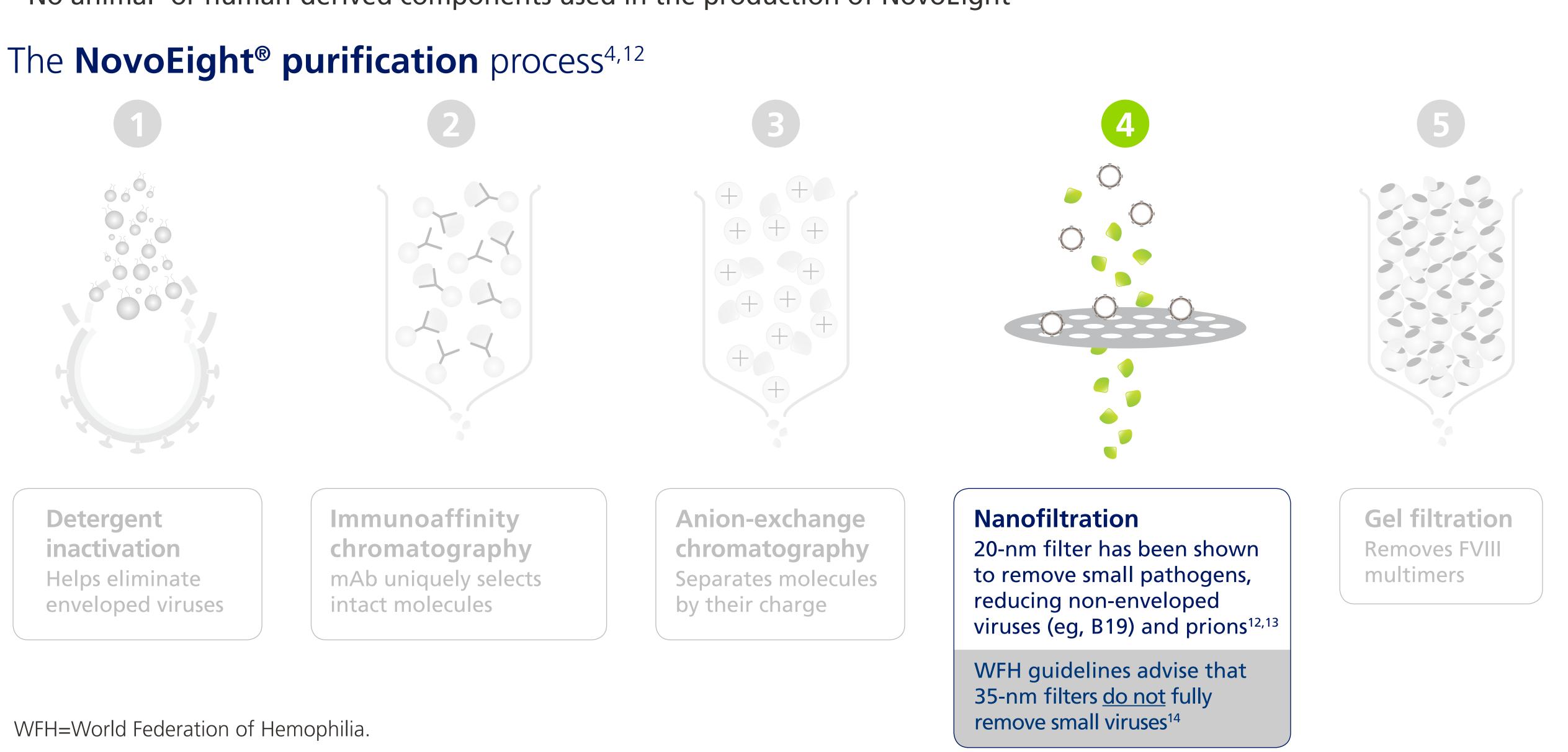
Innovation and Services

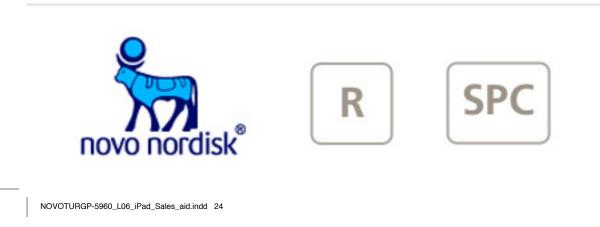
Summary

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• No animal- or human-derived components used in the production of NovoEight^{®1,4}

Introduction





Innovation and Services

Summary



NovoEight[®] was well tolerated across guardianTM1 and guardianTM3^{1,20}

Frequency of adverse drug reactions across guardian[™]1 and guardian[™]3¹

Adverse reaction

Hepatic enzymes increased[‡]

Injection site reactions[§]

Insomnia

Headache, dizziness

Sinus tachycardia

Hypertension, lymphoedema

Rash

Musculoskeletal stiffness, arthro in extremity, musculoskeletal pai

Fatigue, feeling hot, oedema pe

Heart rate increased

Contusion

R





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Innovation and Services

	Frequency* ⁺
	<10%
	<10%
	<1%
	<1%
	<1%
	<1%
	<1%
opathy, pain ain	<1%
eripheral, pyrexia	<1%
	<1%
	<1%

- adolescents and adults¹
- the trials²⁰

- clinical studies: N=214.
- to <1/100).
- and bilirubin.
- site extravasation and injection site pruritus.

 Adverse events reported in 9% of patients¹* Safety results consistent among children,

No thromboembolic events occurred during

*Calculated based on total number of unique patients in all

[†]Frequencies have been evaluated according to the following convention: common (\geq 1/100 to <1/10), uncommon (\geq 1/1,000

[‡]Hepatic enzymes increased include alanine aminotransferase, aspartate aminotransferase, gamma-glutamyltransferase

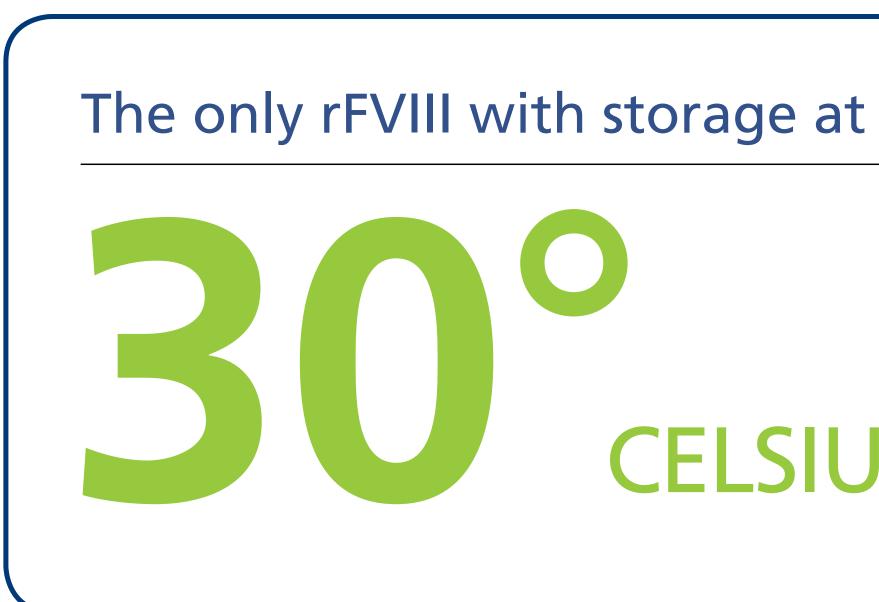
[§]Injection site reactions include injection site erythema, injection



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NovoEight[®] is designed for portability that supports his independence

• Enhanced room temperature stability¹





Innovation and Services

CELSIUS^{1,17–19}

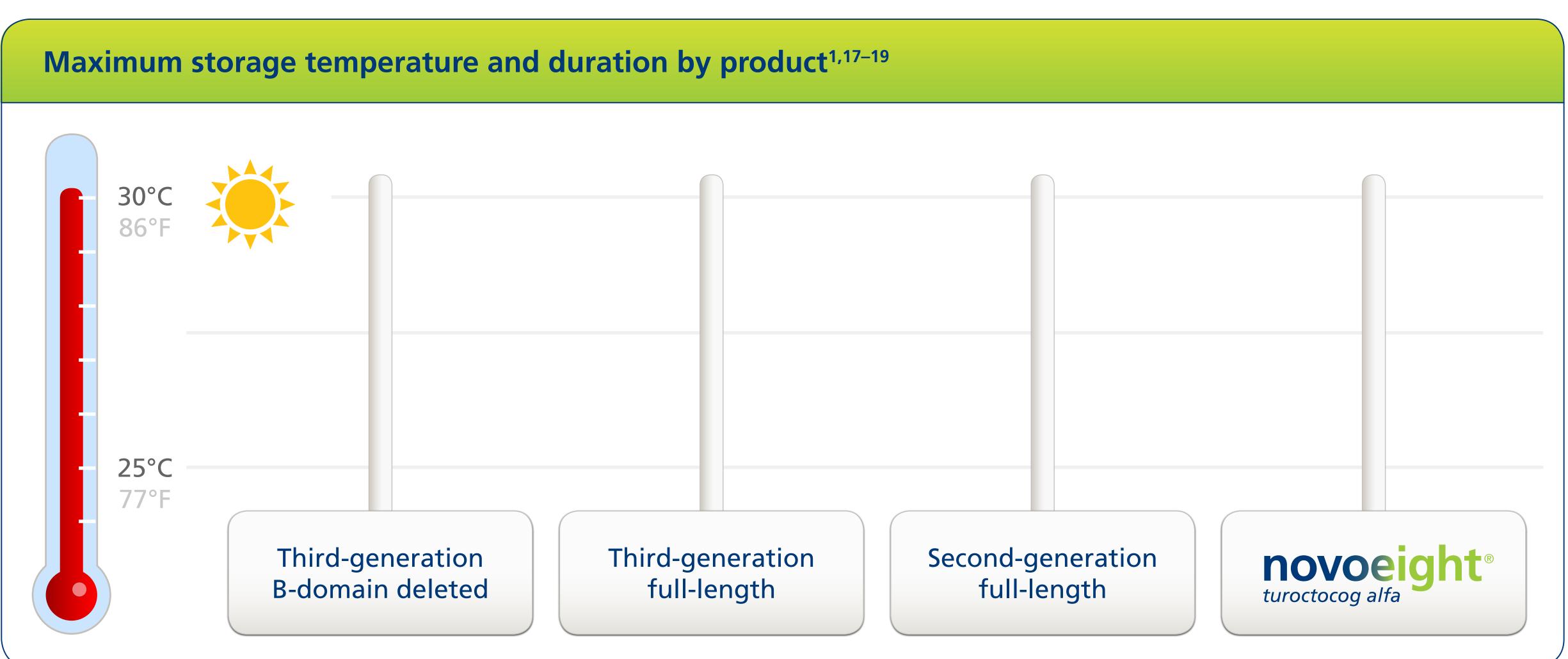


Blerim, 24 years old, works in an office as a commercial trainee and enjoys travelling. Blerim lives with haemophilia A.

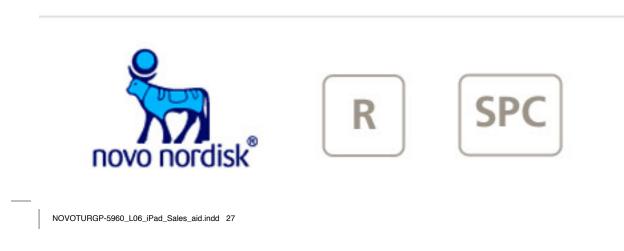
Summary



Room temperature stability for an active lifestyle¹



Store in original package in order to protect from light.¹



Innovation and Services

Only NovoEight[®] can be stored at 30°C for up to 1 year^{1,17–19}

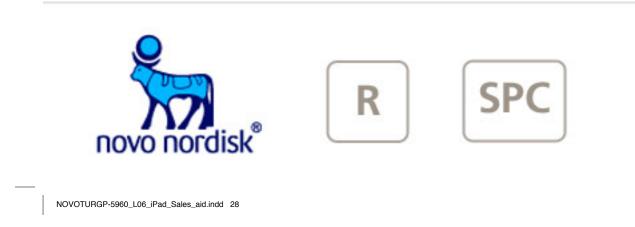
Summary



at 30°C for up to 1 year^{1,17–19}



80% of patients and caregivers prefer a FVIII that offers storage at a higher temperature for longer durations³⁰ Store in original package in order to protect from light.¹

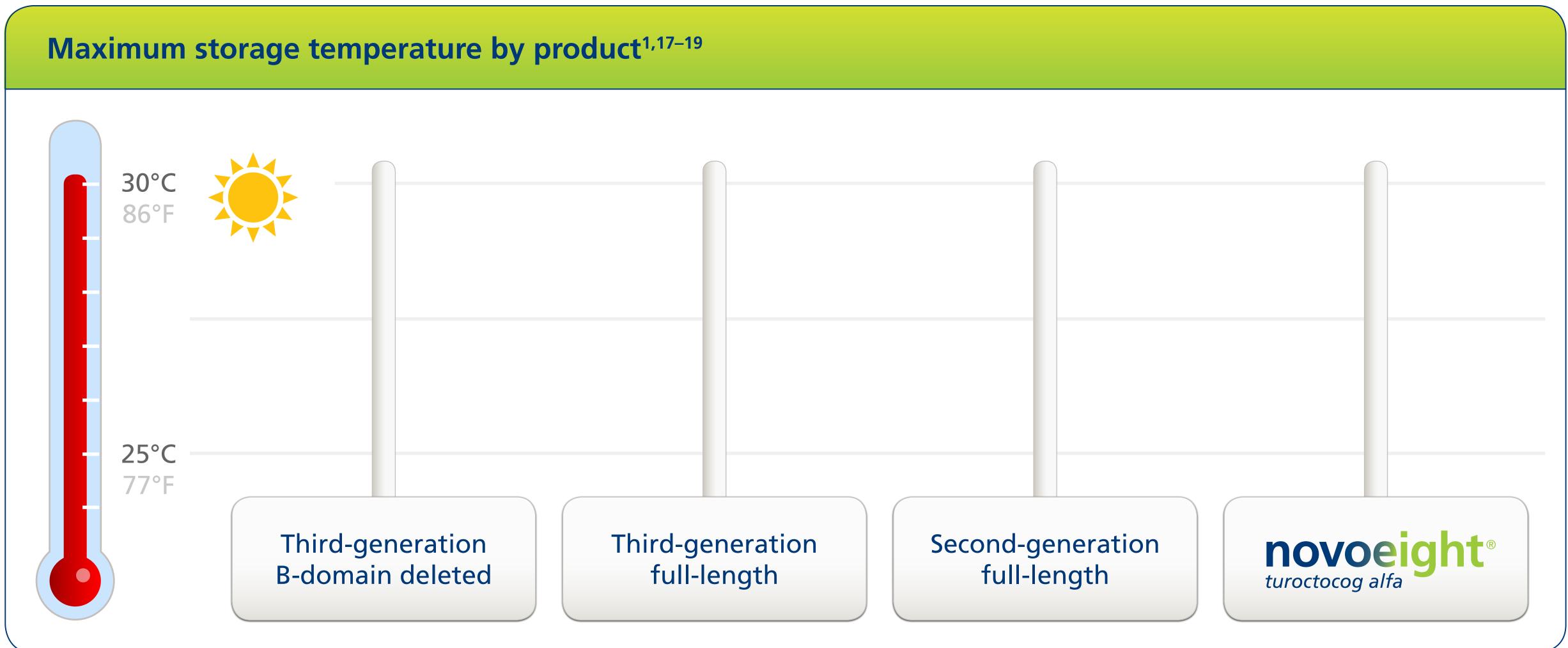


Innovation

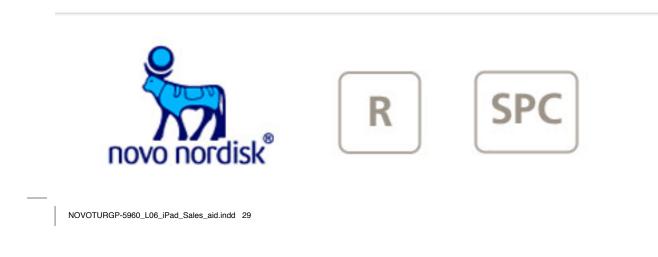


Only NovoEight[®] can be stored at 30°C^{1,17–19}

Room temperature stability for an active lifestyle



Store in original package in order to protect from light.¹



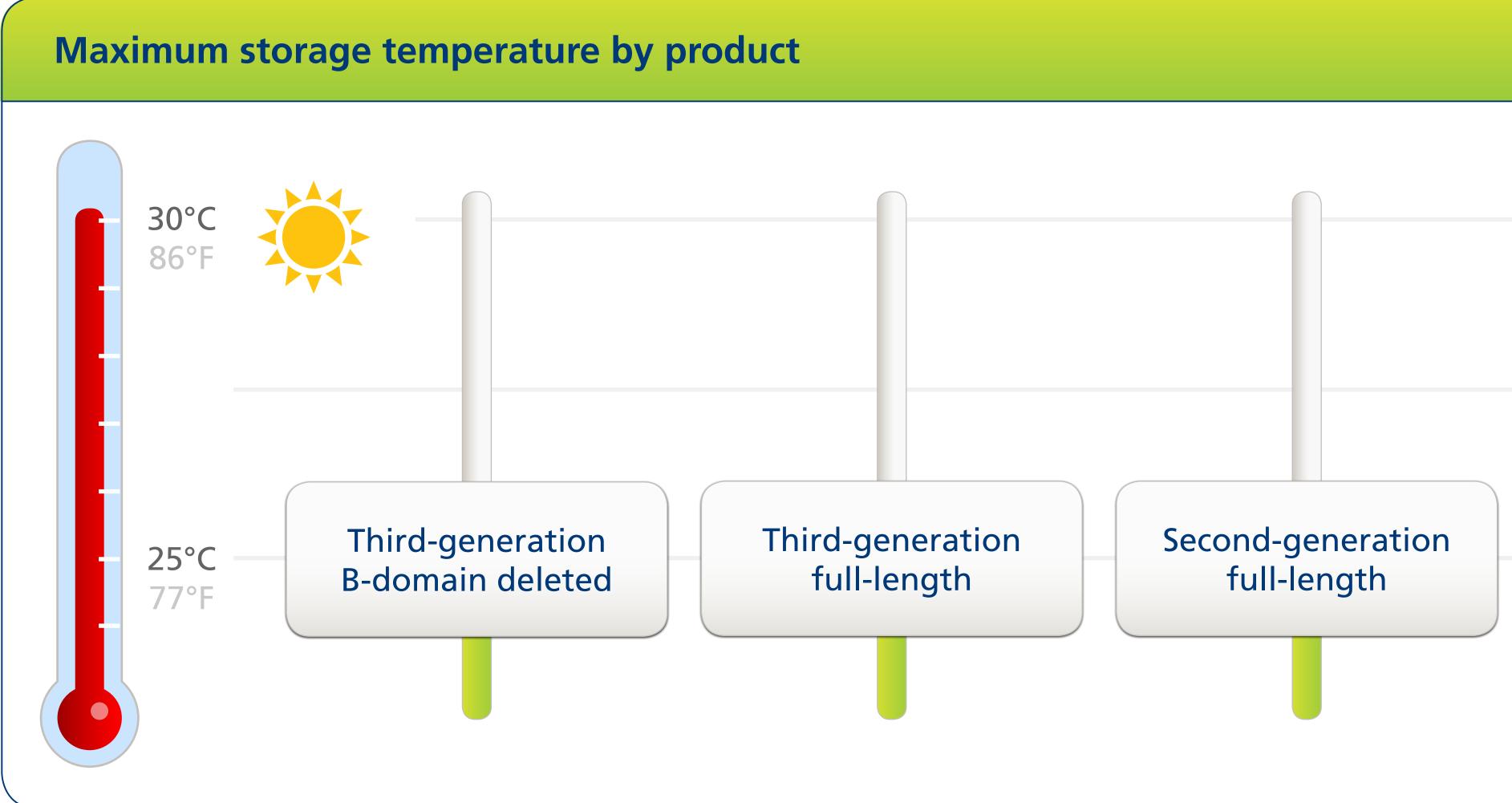
Innovation and Services

Summary



Only NovoEight[®] can be stored at 30°C^{1,17–19}

Room temperature stability for an active lifestyle



Store in original package in order to protect from light.¹



Innovation and Services

80% of patients and caregivers prefer a FVIII that offers storage at a higher temperature³⁰





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Reliability

NovoEight® offers easy reconstitution and multiple dose strengths

Easy reconstitution facilitates quick

preparation of treatment¹* Pre-filled syringe with 4 ml solvent

Multiple dose strengths help more patients infuse with fewer vials¹

*Compared with vial-to-vial reconstitution.



Innovation and Services



Note: Image is for placement only. Please update with approved image upon receipt.

Summary

3000 IU 2000 IU



Novo Nordisk: innovation and services that support you and your patients

Engineering therapeutic proteins since 1923²⁰ Long-standing global commitment to the haemophilia community³¹

Committed to providing support and services



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Introduction

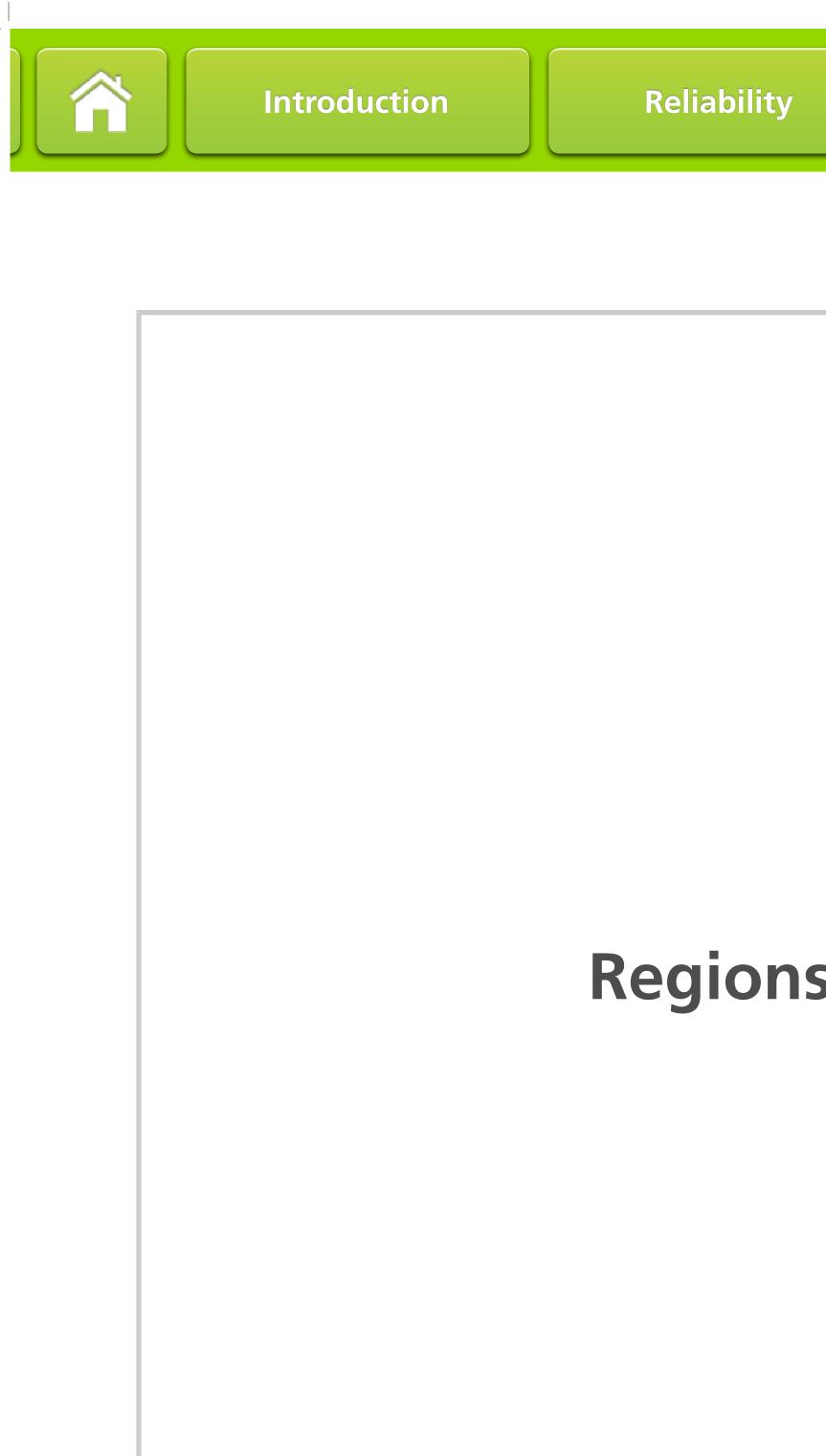
Portability

Innovation and Services



Lawrence, 19 years old, is planning to attend university to study physics. He is a full-time lifeguard and enjoys spending time with his mother. Lawrence lives with haemophilia A.



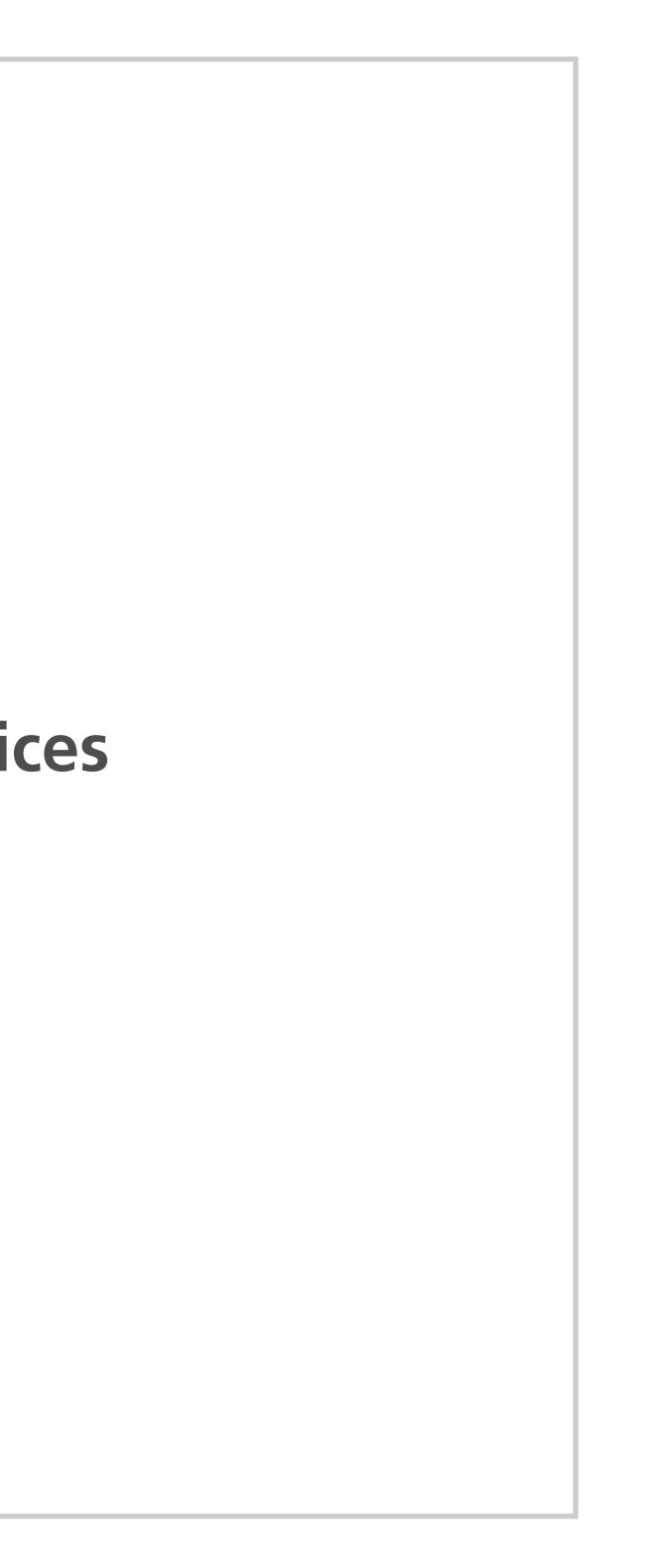




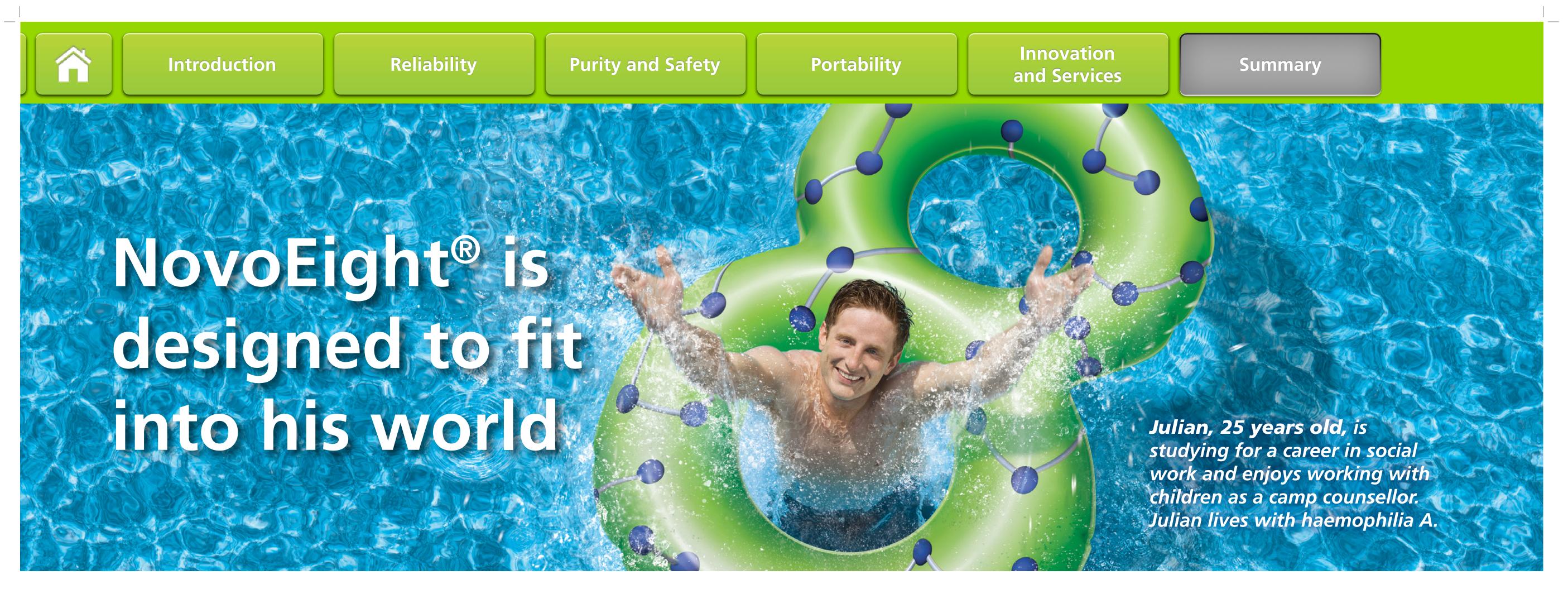
Purity and Safety	Portability	Innovation and Services

Regions/countries to update with local services









NovoEight[®], the **first new rFVIII** molecule in over a decade,^{1,4–9} is deliberately designed for: PORTABILITY RELIABILITY **PURITY AND SAFETY**

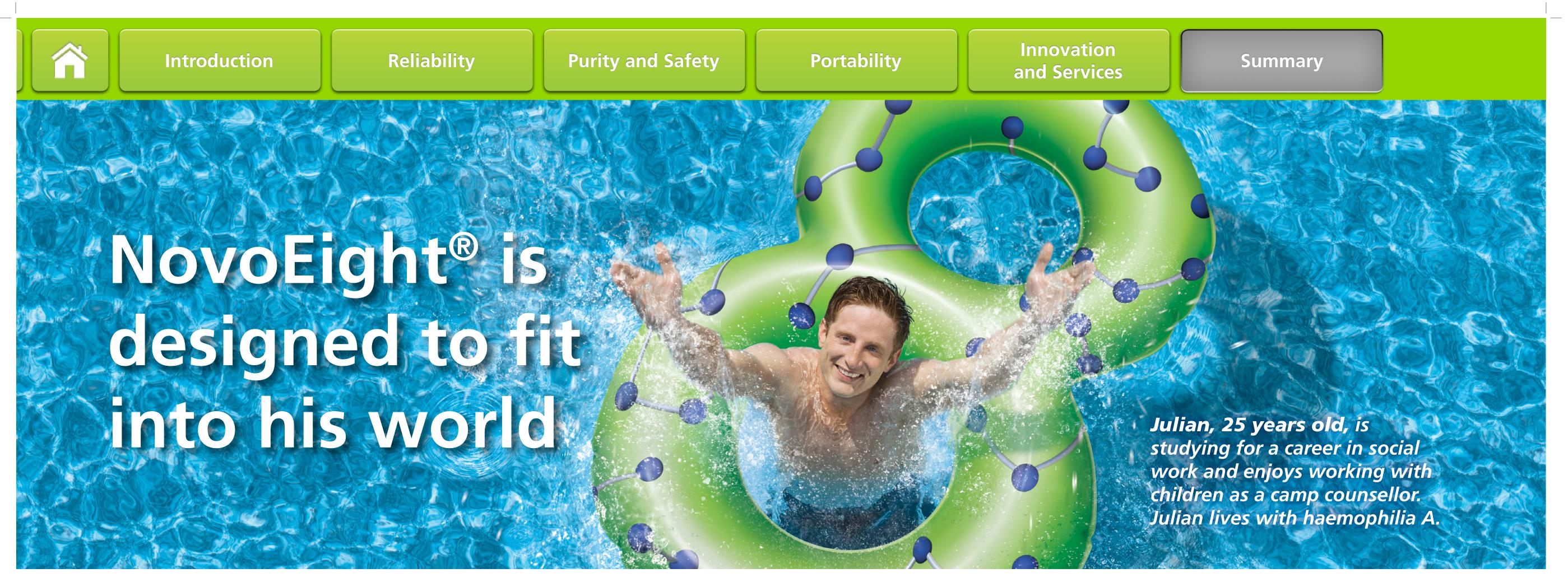
- Consistent activity from batch to batch^{1,10}
- Efficacy proven in the largest pivotal trial programme of any approved rFVIII (N=213)^{1,11}



- Five-step purification process including unique immunoaffinity chromatography and nanofiltration^{4,12}
- Well tolerated in clinical trials^{1,15,16}

 Enhanced room temperature stability¹





RELIABILITY

PTPs who switched to NovoEight[®] in pivotal trials developed

INHIBITORS^{1*}

PTP=previously treated patient.

*Patients with previous inhibitors were excluded from the trials. Individuals with haemophilia A may develop inhibitors to FVIII. Monitor patients taking NovoEight[®] for inhibitor formation.^{1,20}







This document has been prepared before approval of the product by regulatory authorities. After these approvals, its content will be checked against the final label. Do not use for external communication until cleared.

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NovoEight[®], the **first new rFVIII** molecule in over a decade,^{1,4–9} is deliberately designed for: **PURITY AND SAFETY**



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PORTABILITY

