

## Nexus NIS<sup>®</sup>-5 Neutral Displacement Technology

The Nexus NIS<sup>®</sup>-5 Neutral Displacement Technology (accessed with plastic blunt cannula) is engineered and designed to reduce blood reflux upon connection and disconnection.

- Neutral displacement technology reduces blood reflux<sup>3</sup>
- Only neutral displacement technology which uses plastic blunt cannula
- Flat septum surfaces provide microbial ingress protection<sup>2</sup>
- No change in practice
- Minimizes blood reflux into catheters<sup>3</sup>



### Nexus NIS<sup>®</sup>-5 Neutral Displacement Overview



Nexus NIS<sup>®</sup>-5 Neutral Displacement Technology is engineered and designed to reduce blood reflux upon connection and disconnection.

Nexus NIS<sup>®</sup>-5 is the perfect choice for short term use in areas such as Emergency room, out-patient surgery, labor and delivery or where the need for Nexus TKO<sup>®</sup>-5 Anti-Reflux technology is not selected.

Nexus NIS<sup>®</sup>-5 is the only Neutral Displacement Technology solution designed for use with plastic cannula and offers your patients a new level of safety and protection against unwanted catheter occlusions.

Nexus NIS<sup>®</sup>-5 provides *Microbial Barrier Protection 24/7!*<sup>™</sup>



**Nexus NIS<sup>®</sup>-5 Neutral Displacement Technology**  
Reorder Number: N8000



## Nexus NIS®-5 Provides *Microbial Barrier Protection 24/7!*™

Nexus NIS-5® Neutral Displacement technology is designed to protect against blood reflux into the tip of the catheter. The innovative technology found in our *Tri-Seal*™ design provides a level of *Microbial Barrier Protection 24/7!*™ not found in older split septum technologies.

- Flat swabable septum surface for easy and effective cleansing<sup>1</sup>
- A Slit Septum is a preferred design feature for needle free connections<sup>1,4</sup>
- Direct, clear rigid fluid pathway<sup>1,4</sup>
- 96-activation study validates the Nexus NIS®-5 microbial barrier protection<sup>2</sup>



## Nexus NIS®-5 *Tri-Seal*™ design provides *Microbial Barrier Protection 24/7!*™

Our patented *Tri-Seal*™ design with *Slit-Lock*™ technology is designed into all of our Needle Free Devices.

The Nexus *Tri-Seal*™ design provides *Microbial Barrier Protection 24/7!*™ The Nexus NIS®-5 *Tri-Seal*™ design with *Slit-Lock*™ technology has been validated with 3-separate bacteria (*S. aureus*, *S. epidermis*, and *E. coli*) by an outside GLP laboratory using a 96-activation protocol with non-locking cannula.

### Nexus NIS®-5 *Tri-Seal*™ design provides 3-Levels of *Microbial Barrier Protection 24/7!*™:

#### First Level of Protection:

A 360° compressed seal proven to provide a safe and effective microbial barrier protection between the septum and the needle-free connector housing

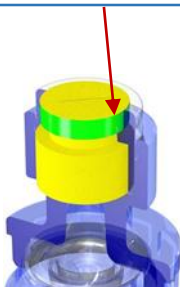
#### Second Level of Protection:

A smooth, easy to disinfect septum surface, promotes a safe and effective microbial barrier.

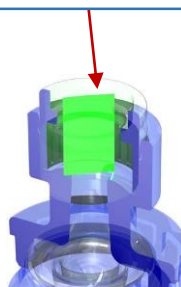
#### Third Level of Protection:

The *Slit-Lock*™ septum protects the internal fluid path from microbial ingress while luer is activating

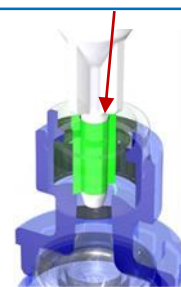
*When not accessed, the Nexus Tri-Seal™ design forms a safe and effective microbial barrier*



*Our Slit-Lock™ Technology forms an Invisible Slit Seal providing Microbial Barrier Protection 24/7!*™



*The Slit-Lock™ septum remains sealed until fully opened deep inside the fluid path.*





*Nexus NIS®-5: Technical Specification Sheet*

## Nexus NIS®-5 Performance Specifications

<b>510K</b>	<b>K092527</b>
<b>Flow Rate at Gravity</b>	<b>75 mL/min or 4500 mL/hr.</b>
<b>Approx. Priming Volume</b>	<b>0.1 mL</b>
<b>Functional Activations</b>	<b>100</b>
<b>Smooth Swabable</b>	<b>Yes</b>
<b>Microbial Barrier (Ingress)</b>	<b>Yes</b>
<b>Mechanical Hemolysis</b>	<b>No</b>
<b>Flushing Efficacy</b>	<b>&lt; 10 mL</b>

<b>Latex Free</b>	<b>Yes</b>
<b>DEHP Free</b>	<b>Yes</b>
<b>Blood Compatible</b>	<b>Yes</b>
<b>Lipid Compatible</b>	<b>Yes</b>
<b>Materials</b>	<b>Polycarbonate, Polyisoprene</b>
<b>MRI Compatible</b>	<b>Yes</b>
<b>Direct Fluid Path</b>	<b>Yes</b>
<b>Clear Fluid Path</b>	<b>Yes</b>

## Nexus NIS®-5 Clinical Evidence

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*Nexus NIS®-5 Brochure*

## Nexus NIS®-5 Clinical Evidence

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*96-Activation Microbial Performance Study by Apptec Laboratory Services, Saint Paul, Minnesota*



*Microbial Performance Study by Apptec Laboratory Services,  
Saint Paul, Minnesota*

## References

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1. Jarvis, W. Choosing the best design for the Intravenous needleless connection to prevent HA-BSI's. Infection Control Today, 2010 Aug.
2. GLP-Study, Nexus TKO®, 96-Activation Microbial Barrier Performance Study, on file at Nexus Medical LLC,
3. Lab results on file at Nexus Medical, LLC,
4. Guidelines for the Prevention of Intravascular Catheter Related Bloodstream Infections. (May 17, 2010, on file [www.cdc.gov/hipac/pdf/BSI\\_guidelines\\_issuesmayu17final.pdf](http://www.cdc.gov/hipac/pdf/BSI_guidelines_issuesmayu17final.pdf)).