

### - For Fecal Immunochemical Test (FIT) -





alfresa

NS-Prime



Otsuka



# **Simply Better**

# We have added many new features while retaining the most popular features of the old model.

## Advanced features include:

### **Click** Easier Management with Barcodes

Calibrators, controls and reagents all barcoded for quick, accurate hassle-free registration

Click **v** 

## **Clicky** Improved Reproducibility

More accurate dispensing for much higher reproducibility

### Click Ten-rack Tray

Ten-rack tray added as a standard feature allows simultaneous loading of 100 samples

#### Click Simultaneous Multiple Assay

For Multiple combination screening

#### Up to Five Days of **Continued Placement**

Reagents

Built-in refrigeration allows reagents to be left in rack up to 5 days

Hemoglobin Reagent

Specimen Diluen

A series of the Here Assau In Process nopun Q + -Display × Standby Benc

**Ten-rack Tray** 

Sample Rack

# Analytical Unit Otsuka PUSH Two-rack Tray For Facal Immunochemical Test (FIT) FIT NS-Prime Control IME 910873 Centrol I: Supplicad 11 2.5 mil. Centrol I: Supplicad 11 20 mil. Solution 1 × 20 × xxxx - xx (III) (III) re 2 × 10 Alfress Pharma Corners

Cont

Hemoglobin Calibrato



# Simply Insert a Tray in the Rack Transfer Unit to Start the Assay.

STEP

### **Powering ON and Starting Up**

Start up the system main unit and the PC for control, and double click the NS-Prime User Program icon to automatically start up the system. The system executes self-diagnosis.

When the system completes the startup process, a log-in screen will be displayed. Enter the user name and password to display the initial screen for assay.



Starting Up



### **Preparing a Reagent and** Sample and Loading the Reagent

Place a reagent on the reagent table. Place samples in a sample rack.



Loading a Sample Rac



### **Calibration, Control, and Sample Assay**

After performing and confirming calibration and control assay, place the sample on the rack and place the rack into a tray to start the assay.

Consequently, the measurement is executed any time the tray is inserted into the rack transfer unit.



Assay Start Screen

### **Measurement Result**

The assay screen allows checking in real time the assay status and the measurement result.

The sample screen allows referring measurement result of each sample as well as detailed information.



Measurement Result Screen

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### **Shutdown Operation**

Click the Abort Assay icon (the software transitions to Waiting mode). Then, click the Exit button. The End Processing dialog box will be displayed. Select an option from the end processing menu.



The 19-inch LED display provides greater visibility. The large and easy-to-understand icons facilitate checking the assay status, the remaining volume of reagents, the volume of waste, etc. The system also supports an optional touch panel.

> Two-rack Tray

Ten-rack



The system is equipped with two-rack trays on six lanes as a standard for the analysis of a small number of samples. Of the six lanes, one lane is a priority lane, which allows priority interrupts (20 samples). The entire set of trays can be optionally changed to two-rack trays.

Ten racks (100 samples) can be simultaneously accommodated for a large number of samples. The system can be optionally equipped with ten-rack trays on both sides.

Barcode Management of Calibrator and Control



As a new feature, calibrators and controls can be registered through barcodes, eliminating the entire registering operation.



The metal probes on both R1 and R2 Dispense Arms provide improved dispensing accuracy and durability. In addition, the independent Reagent Probe Washing Unit enables the processing of 300 tests per hour, even when multiple items are assayed.

•	Within-run	Reproducibility	(Hemoglobin)
			Unit: na/mL

	Sample 1	Sample 2	Sample 3	Sample 4
1	58	114	249	483
2	60	116	250	492
3	60	116	251	491
4	60	115	252	484
5	59	114	247	498
6	59	112	251	484
7	59	113	251	494
8	60	114	250	477
9	58	114	252	495
10	58	112	248	484
11	58	114	255	484
12	59	113	254	488
13	60	113	249	479
14	58	116	255	504
15	59	112	255	481
16	58	112	252	474
17	59	112	251	475
18	60	112	252	470
19	58	112	252	486
20	59	111	248	484
Mean	59.0	113.4	251.2	485.4
SD	0.83	1.53	2.35	8.51
CV	1.4%	1 1%	0.9%	1.8%





1/10 2/10 3/10 4/10 5/10 6/10 7/10 8/10 9/10 10/10

Dilution

5

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Analytical Unit

Reagent



The reagent table can contain up to five sets of reagent bottles (max. 1500 tests, max. 5 items.) R1 and R2 are provided with a combination bottle managed with a barcode to save time and effort for installation.

The interior of the reagent table is maintained at constant temperature (4–10°C), allowing reagents to be left in the reagent table for five days.

• On-Board Stability 11 alahin D

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(nemoglobin kedgeni)				
		Control		
	Day	Blank	Low	High
	0	2	122	219
	1	2	120	218
	2	2	122	222

122		22	22
	Unit	: Hb	ng/



The DI-water tank capacity is increased to 10 L to reduce replacement time and effort.



### Name of Each Part



#### Unit Dimensions



400mm

#### Basic Specifications

Trade name	Discrete Clinical Chemistry Analyzer NS-Prime	
Measurement principle	Colloidal gold agglutination	
Processing capacity	300 tests per hour max.	
Sample capacity	220 samples max. (22 racks)	
Priority sample capacity	20 samples max. simultaneously (2 racks)	
Sample dilution	Manual setting: Dilution ratio 1/1, 1/10, 1/100, 1/200 Automatic setting: Dilution ratio 1/1, 1/10, 1/100	
Reaction cells	5 semi-disposable cells x 10 (resin-molded cell) Automatic cell cleaning with detergent and DI-water	
Sampling	Nozzle type (liquid level detection function, automatic cleaning with detergent and DI-water)	
Reagent dispensing	Nozzle type (liquid level detection function, automatic cleaning with detergent and DI-water)	
Mixing system	Mixer: Rotation type (automatic cleaning with detergent and DI-water)	
Temperature control system	Reaction table: Air bath-heating block Reagent table: Cooling with Peltier cooler	
Light source	LED (wavelength: 540, 630, and 660 nm)	
Sensor	Photodiode	
Display and input	Color LED (19-inch), keyboard, mouse *Option: Touch panel display (19-inch)	
Data memory	240,000 tests	
Output	*Option: Page printer (size A4, laser type)	
Barcode	Reading of rack barcodes and sample barcodes Reading of reagent, calibrator, and control barcodes	
Dimensions	W805mm x D620mm x H400mm (System main unit)	
Weight	Approx. 70 kg (System main unit)	
Required power	AC100-240V 50/60Hz, 400VA (System main unit)	
Marketing notification no. (Japan)	27B1 X 00055000008	
JMDN code	35743010	
<ul> <li>Main accessories</li> <li>Sample rack: 22 pcs ◆ Calibrator and control rack (S rack): 1 pc ◆ Low volume sample rack (M rack): 1 pc ◆ Ten-rack tray: 1 pc ◆ DI-water tank: 2 pcs ◆ Washing solution tank: 2 pcs</li> <li>Waste tank: 1 pc ◆ Master PC (mouse, keyboard, LED display) ◆ Software (CD)</li> <li>↓ LAN cable ◆ User manual for the analyzer ◆ Package insert for the reagents</li> <li>Main options</li> <li>*Ten-rack tray, *Printer, *Touch panel display</li> </ul>		
Caution For correct and safe use of the product, be sure to read the package insert and user manual before using the product.		

Your Distributor

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