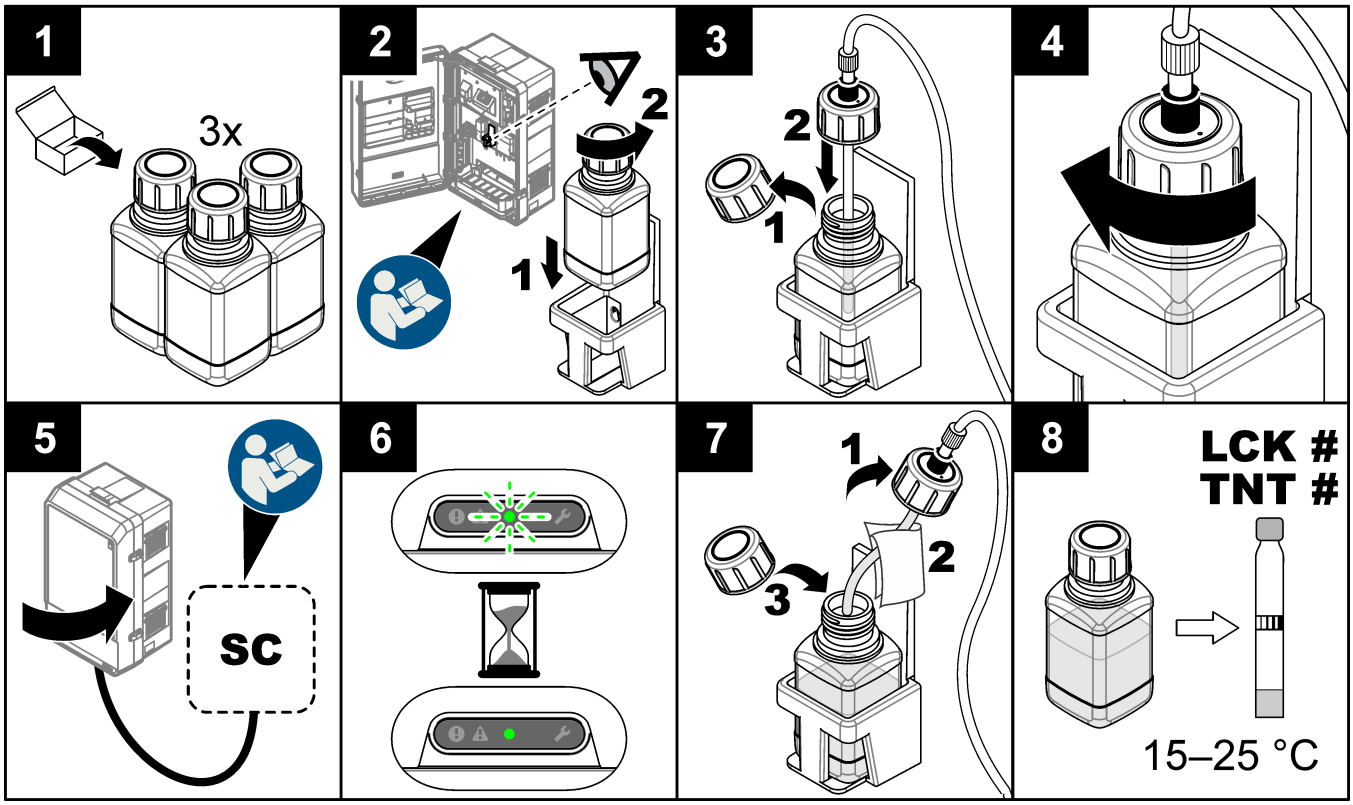
LCW1091 Grab Sample and Validation Procedure

Grab sample procedure

Refer to the illustrated steps that follow to complete a grab sample procedure.



Analyze the sample immediately after the procedure. If the sample cannot be analyzed within 2 hours, put the sample in a refrigerator at 2 to 5 °C (35.6 to 41 °F). Keep the refrigerated sample for a maximum of 4 hours. To select the applicable laboratory test for analysis, refer to Table 1. To compare the laboratory measurements with the grab sample, follow the special instructions of the cuvette tests.

Table 1 Cuvette tests

Cuvette tests			NP6000sc measurement ranges (PO_4-P mg/L)	
LCK #	**TNT/HPT #**	**Range for PO_4-P mg/L**	**Range 2 (0.05 to 15 mg/L)**	**Range 3 (1 to 75 mg/L)**
LCK549	HPT487	0.01 to 0.5 mg/L	x	
LCK349	TNT843	0.05 to 1.5 mg/L	x	
LCK348	TNT844	0.5 to 5.0 mg/L	x	x
LCK350	TNT845	2.0 to 20.0 mg/L	x	x
LCK351	—	10 to 100 mg/L		x

Example for Range 2 in Table 1: If the grab sample result is 1 mg/L PO_4-P, select a cuvette test within the measuring range. The recommended cuvette test in the example is LCK349/TNT843.

Validation procedure

Refer to the illustrated steps that follow to complete a validation procedure. Use the supplied LCA1050 for the validation measurement. Refer to Table 2 for the test specifications.

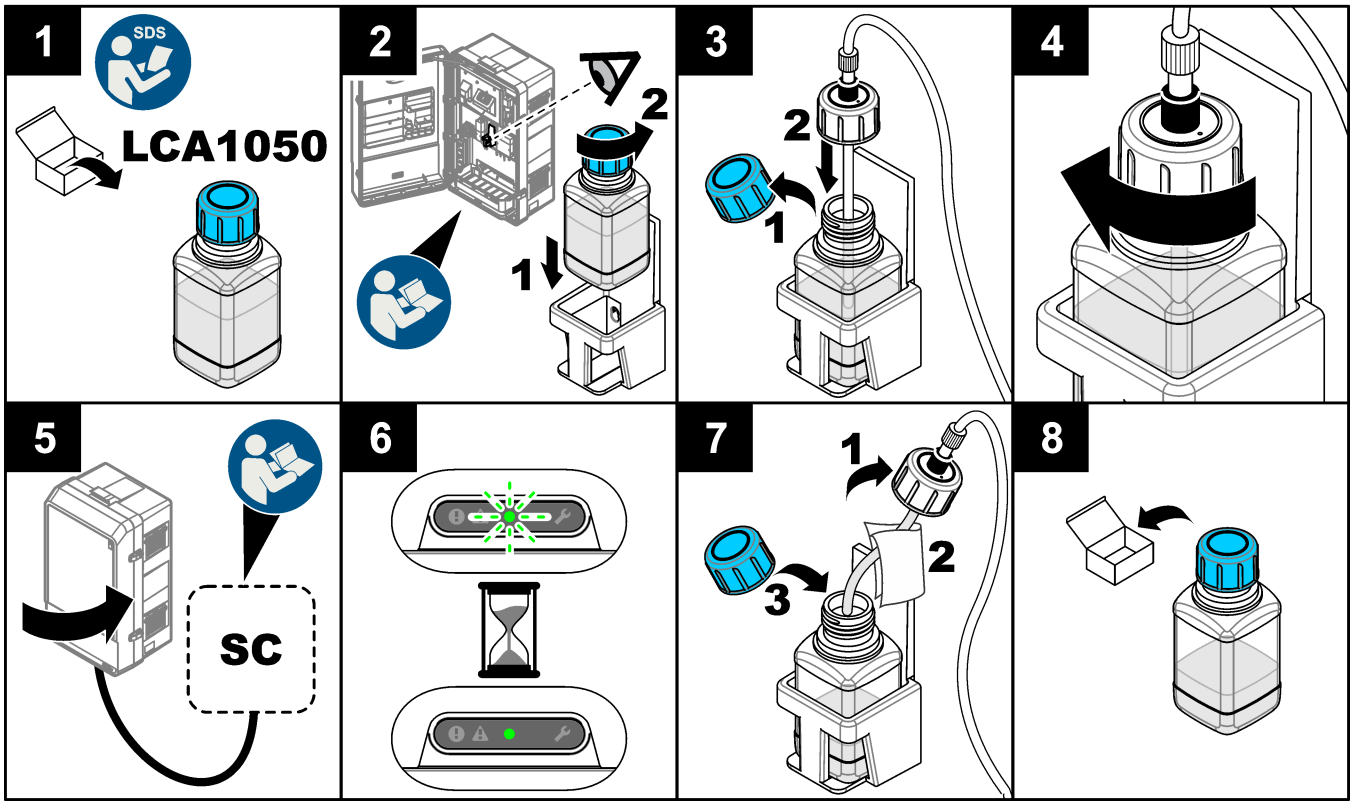


Table 2 LCA1050 specifications

Specification	Details
Concentration	10 mg/L PO_4-P
Parameter	Phosphate
Quantity	100 mL
Storage conditions	15 to 25°C (59 to 77 °F)
Number of uses for NP6000sc measurements	5

HACH COMPANY World Headquarters
P.O. Box 389, Loveland, CO 80539-0389 U.S.A.
Tel. (970) 669-3050
(800) 227-4224 (U.S.A. only)
Fax (970) 669-2932
orders@hach.com
www.hach.com

HACH LANGE GMBH
Willstätterstraße 11
D-40549 Düsseldorf, Germany
Tel. +49 (0) 2 11 52 88-320
Fax +49 (0) 2 11 52 88-210
info-de@hach.com
www.de.hach.com

HACH LANGE Sàrl
6, route de Compois
1222 Vésenaz
SWITZERLAND
Tel. +41 22 594 6400
Fax +41 22 594 6499

© Hach Company/Hach Lange GmbH, 2025. All rights reserved. Printed in Germany.
05/2025, Edition 1