

WHO Collection, Sample Collection kit 2022 (SCK kit 2022)Rev1

Please note that related information resources and training materials are available in the USB thumb drive included

Scope of SCK 2021

This kit contains the necessary supply for the collection and transport of biomedical samples (Blood, CSF, stool, urine, skin and respiratory samples).

Structure and Content of SCK 2021

The SCK 2022 is composed of 8 modules, as followed:

		KIT, SAMPLE COLLECTION 2022, complete, 8 modules(Rev. 08.2024)	
MODULE 1	KMEDSAMCKM1--A1	(kit sample collection 2022 rev.1) MODULE 1, MISCELLANEOUS	changes Aug. 2024
	KMEDSAMCKM21-A1	(kit sample collection 2022 mod 2 rev.1) SET 2.1, BLOOD SAMPLE COLLECTION	
MODULE 2	KMEDSAMCKM22-A1	(kit sample collection 2022 mod 2 rev.1) SET 2.2, BLOOD SAMPLE COLLECTION, VACUTAINERS	
MODULE 3	KMEDSAMCKM3--A1	(kit sample collection 2022) MODULE 3, CSF (Meningitis), 100 lumbar punctures	
MODULE 4	KMEDSAMCKM4--A1	(kit sample collection 2022) MODULE 4, RESPIRATORY SAMPLE, tuberculosis	
4.1	KMEDSAMCKM45GA1	(kit sample collection 2022 module 4) SET, RESP. SPUTUM INDUCTION, 0-14 years	
4.2	KMEDSAMCKM45NA1	(kit sample collection 2022 module 4) SET, RESP. NASOPHARYNGEAL ASP., 0-14 years	
4.3	KMEDSAMCKM45SA1	(kit sample collection 2022 module 4) SET, RESP. GASTRIC ASPIRATION, 0-14 years	
MODULE 5	KMEDSAMCKM5--A1	(kit sample collection 2022) MODULE 5, STOOL SAMPLE COLLECTION	
MODULE 6	KMEDSAMCKM6--A1	(kit sample collection 2022) MODULE 6, SKIN SAMPLE COLLECTION	
MODULE 7	KMEDSAMCKM7--A1	(kit sample collection 2022) MODULE 7, URINE SAMPLE COLLECTION	
MODULE 8	KMEDSAMCKM8--A1	(kit sample collection 2022) MODULE 8, SAMPLE TRANSPORT	

Module 1 MISCELLANEOUS

It includes small laboratory supplies and stationery useful for fluid sampling procedures, such as biohazard bags, a sharps collector box, surface disinfectant, gloves, a notebook, and a pen.

During the 2024 interim revision, the universal transport media (Viral transport media) was removed from the module as it compromised the overall shelf life. This item can now be requested separately from the WHO catalogue.

Module 2 BLOOD SAMPLE COLLECTION

It contains all the necessary supplies **to perform 25 blood draws**. Now split into two sets: one set containing only the vacutainers. During the interim revision, the EDTA (purple) and Serum (red) vacutainers were removed and listed as a separate set. This change was made to extend the shelf life of Module 2. However, please note that the new set 2 Blood Sample Collection Vacutainer has a very short shelf life.

Additionally, for blood collection, there is another kit available called the CTT kit 2021 - Collection, Testing & Transfusion Kit.

Module 3 CSF (Meningitis), 100 lumbar punctures

It contains all the necessary supplies to perform **approximately 100 spinal taps (lumbar punctures)**. This procedure should be conducted by trained healthcare professionals, preferably in hospital settings. This module is also known as the "meningitis kit," as it is used for the diagnosis and confirmation of meningitis during outbreaks.



Module 4 RESPIRATORY SAMPLE, tuberculosis

It contains 3 different sets (4.1,4.2 and 4.3) corresponding to the different methods of obtaining clinical samples from children for rapid molecular testing: expectoration, gastric aspiration, nasopharyngeal aspiration (NPA) and induced sputum. Note that those procedures are considered aerosol-generating procedures therefore should be performed in a well ventilated room, personnel should wear appropriate protection (FFP2 masks), glasses and gloves.

Procedures need to be handled by trained health care professional preferably in hospital settings.

Each set contains small supply to perform about **20 procedures**.

Note that the kit does **NOT contain** equipment such as suction pump, oxygen concentrator, nebulizer and respective spare parts. Devices and spare parts will need to be ordered separately on the WHO catalogue.

4.1 SET, RESP. SPUTUM INDUCTION, 0-14 years

Sputum induction can be done in people of any age who are unable to produce sputum spontaneously. This method should be handled by specialised professional with adequate equipment and should not be done if the child suffers from respiratory distress (SO₂ less than 92%). Note that this procedure is considered of high risk to generate aerosol and therefore health personnel should be appropriately equipped and the room well ventilated.

For more information, please refer to WHO operational handbook on tuberculosis (2022) Annex 4. Standard operating procedures for sample collection methods Operational handbook annex 4. p220

4.2 SET, RESP. NASOPHARYNGEAL ASP., 0-14 years

Nasopharyngeal aspirate is a method that is suitable to peripheral health care setting than can be performed in outpatient setting. Follow the procedure as described in WHO operational handbook on tuberculosis (2022) Annex 4. Standard operating procedures for sample collection methods Operational handbook annex 4 . p220

4.3 SET, RESP. GASTRIC ASPIRATION (NPA), 0-14 years

Gastric aspirates are used for collection of samples for diagnostic testing when sputum cannot be spontaneously expectorated. This procedure requires the child to fast for more than 4 hours before its performance. Appointments for the gastric aspiration should be scheduled early in the morning so that the child can undergo the procedure after overnight fasting.

For more information, please refer to WHO operational handbook on tuberculosis (2022) Annex 4. Standard operating procedures for sample collection methods Operational handbook annex 4 . p220

Module 5 STOOL SAMPLE COLLECTION

It contains supply to collect **30 stool samples** (faeces container and specimen collection swabs).

For Polio, there is another kit called “ KIT, POLIO SPECIMEN COLLECTION”

Module 6 SKIN SAMPLE COLLECTION

It contains supply to collect **20 skin samples** including skin biopsy punch and scalpels disposable, Paraformaldehyde 8% and wound closure strips.

Module 7 URINE SAMPLE COLLECTION

It contains only **30 urine containers 100ml** disposable, sterile, for urine sample collection.



Module 8 SAMPLE TRANSPORT

It contains various boxes and carriers designed for the transport and shipping of samples, including infectious substance packaging UN2814 and UN2900 (Category A), biohazard bags (red and yellow), a 2.6-liter vaccine carrier, and a cold chain insulated box measuring 35x35x35 cm.

Kit label

The kit label colour is “blue” for the SCK 2022. Information on the label are:

- **Kit name:** “KIT, SAMPLE COLLECTION 2022, complete,”
- **Module name:** e.g. “(kit sample collection 2022) MODULE 6, SKIN SAMPLE COLLECTION”
- **Number of boxes per module:** “Box 1/1”, in the example below, indicates that only one box composes the module.
- **WHO code for the module (*not the kit*):** KMEDSAMCKM6--A1
- **Expiration date of the first item to expire in the module:** this (these) specific item(s) should be in the box#1. Box#1 always contains the short shelf life item(s).



How to order and re-order

The complete kit can no longer be requested as a single unit. Instead, now individual module can be ordered based on specific needs. Each module is a standalone unit and can be ordered separately in varying quantities, allowing to customize the order by selecting the exact number of each module required.

Useful resources and WHO guidelines

- WHO Operational handbook on Tuberculosis, Module 5: management of tuberculosis in children and adolescents, 2022 , <https://apps.who.int/iris/rest/bitstreams/1414333/retrieve>
- <https://www.who.int/emergencies/emergency-health-kit>