

Ottix plus
Formula patented**Manufacturer: Diapath** Via Savoldini,71- 24057 MARTINENGO- BG- PH +39.0363.986.411 info@diapath.com

CODE	PACKAGING
X0073	1 liter
X0076	5 liters

Presentation

Ottix plus is an innovative reagent: an alcoholic anhydrous component and an aliphatic hydrocarbon mixture aromatic free. In association with Ottix Shaper, it represents an efficacious alternative to alcohols (with different grade) and Xylene (or substitutes). It is used in histo-citology routine: in histoprocessation and stain protocols. Good results also in molecular biology protocols.

Composition

Alkyl C ₅ -C ₁₂	CAS No. 64742-49-0	EC No. 265-151-9
Aliphatic alcohol	CAS No. 71-23-8	EC No. 200-661-7
Ethanol	CAS No. 64-17-5	EC No. 200-578-6

Method**STAIN AND HISTOPROCESSATION USE IN PATHOLOGICAL ANATOMY.****HISTOPROCESSATION:**

Formalin in the first phase of histoprocessor might causes phosphates precipitation with a consequent histoprocessor draining pipe blocking. For this reason, we suggest to insert a storage phase (water) between formalin and Ottix Shaper to support possible salt residual solubilization.

Ottix plus and ottix shaper could be use on the histoprocessor present.

HISTOPROCESSATION PROTOCOL

Tank N.°	Reagent	Time (hours)	Temperature (C°)	Vacuum pressure
1.	Formalin 4%			
2	Washing in water	10 min		
3	Ottix Shaper	1h		
4	Ottix Plus	1h	35-37°C	Yes, low
5	Ottix Plus	2h	35-37°C	Yes, low
6	Ottix Plus	2h	35-37°C	Yes, low
7	Ottix Plus	2h	35-37°C	Yes, low
Paraffin 1	Paraffin	1h	58-60°C	Yes, pushed
Paraffin 2	Paraffin	1.30 h	58-60°C	Yes, pushed
Paraffin 3	Paraffin	1.30 h	58-60°C	Yes, pushed

HISTOPROCESSATION PROTOCOL IN ABSENCE OF VACUUM PRESSURE

Tank N.°	Reagent	Time (hour)	Temperature (C°)
1	Formalin		
2	Washing in water	10 min	
2	Ottix Shaper	1h	
3	Ottix Plus	1h	
4	Ottix Plus	2h	
5	Ottix Plus	2h	
6	Ottix Plus	2h	
Paraffin 1	Paraffin	1	58-60°C
Paraffin 2	Paraffin	1.30 h	58-60°C
Paraffin 3	Paraffin	1.30 h	58-60°C

NB. Reagent has an alcohol percentage. To optimize histoprocessing protocol, we suggest to reduce dehydration times as advised. Vacuum/pressure with low values cycles application and 35°C temperature clarification phase can give better results.

HISTOPROCESSATION PROTOCOL (SMALL PIECES- BIOPSIES)

Can N.°	Reagent	Time (min)	Temperature (C°)	Vacuum pressure
1	Ottix Shaper	20 min		
2	Ottix Plus	30 min	35-37°C	
3	Ottix Plus	30 min	35-37°C	
4	Ottix Plus	30 min	35-37°C	
Paraffin 1	Paraffin	30 min	58-60°C	yes
Paraffin 2	Paraffin	30 min	58-60°C	yes

**HISTOPROCESSATION PROTOCOL FOR OPERATOR PICES AND BIOPSIES:
MIXED HISTOPROCESSATION**

Can N.°	Reagent	Time (hour)	Temperature (C°)	Vacuum/pressure
1.	Formalin 4%			
2	Washing in water	10 min		
3	Ottix Shaper	30 min		
4	Ottix Plus	1 h	35-37°C	Yes, low
5	Ottix Plus	1h	35-37°C	Yes, low
6	Ottix Plus	1 h	35-37°C	Yes, low
7	Ottix Plus	2 h	35-37°C	Yes, low
Paraffin 1	Paraffin	1-1.30h	58-60°C	Yes, pushed
Paraffin 2	Paraffin	1.30-2 h	58-60°C	Yes, pushed
Paraffin 3	Paraffin	1.30- 2h	58-60°C	Yes, pushed

STAIN

- **Histological samples (IHC and special stain)**

DEWAX protocol

- Dry sections in stove at 60°C for 15 minutes
- Ottix Plus for 5 minutes
- Ottix Plus for 5 minutes
- Ottix Shaper for 2 minutes
- Ottix Shaper for 2 minutes
- Distilled water for 5 minutes

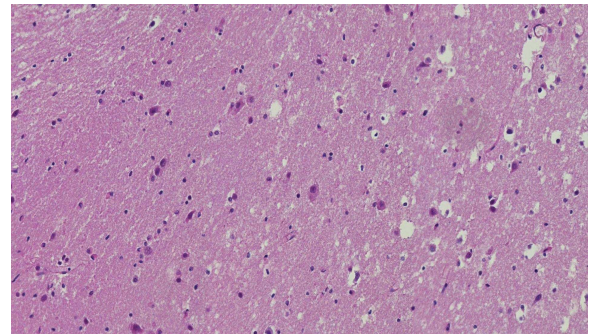
DEHYDRATE AND CLEAR protocol

- Ottix Shaper for 30 sec- 1min
- Ottix Plus for 5 minutes
- Mount

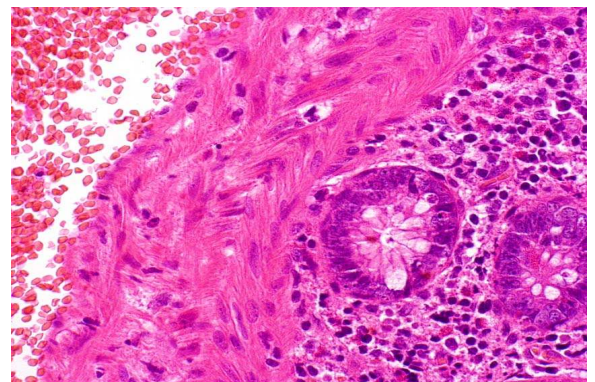
NOTE: don't leave the slides in Ottix Plus more than 20 min before mounting

Example for protocol of Haematoxylin- eosin water based

1. Ottix Plus for 7 min
2. Ottix plus for 7 min
3. Ottix shaper for 7 min
4. Water for 5 min
5. Haematoxylin from 1 min to 10 min
6. Running water for 5-10 min
7. Water eosin 2-3 min (if acetified 1-2 min)
8. Running water for 2-5 min
9. Ottix Shaper for 30 sec
10. Ottix Shaper for 1 min
11. Ottix Plus for 5 min
12. Ottix Plus for 5 min

**Example for protocol of Hematoxylin- eosin alcohol based**

13. Ottix Plus for 7 min
14. Ottix Plus for 7 min
15. Ottix Shaper for 7 min
16. Water for 5 min
17. Hematoxylin for 1-10 min
18. Running water for 5-10 min
19. Ottix Shaper for 1-2 min
20. Alcoholic eosin 30sec-1 min
21. Ottix Shaper for 30 sec
22. Ottix Shaper for 30 sec
23. Ottix Plus for 5 min
24. Ottix Plus for 5 min



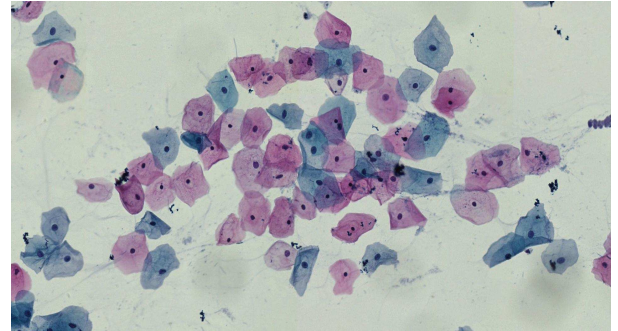
NOTE: Don't leave the slides in ottix plus more than 20 min before mounting

MOUNTING MEDIA:

Ottix plus is compatible with the mounting media xylen based.
 We suggest to use Diamount mounting media xylen and toluene free.
 It is no toxic and suitable for manual or automatic coverslipper.

Cytological sample: example of Papanicolaou protocol stain for smear

- | | |
|-----------------------|------------------|
| 1. Ottix Shaper | 2 -5 min |
| 2. Water | 5 min |
| 3. Harris hematoxylin | for 30 sec-1 min |
| 4. Running water | 5 min |
| 5. Ottix shaper | 2 min |
| 6. Orange G | for 30 sec-1 min |
| 7. Ottix Shaper | for 2 min |
| 8. Ottix Shaper | for 2 min |
| 9. EA50 30 | for sec-1 min |
| 10. Ottix Shaper | for 2 min |
| 11. Ottix Shaper | for 2 min |
| 12. Ottix Plus | for 5 min |
| 13. Ottix Plus | for 5 min |



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Storage, handling and stability**Handling care:**

Avoid contact and vapours inhalation. During work no eating neither drinking.
Incompatible materials: NATURAL RUBBER/BUTYL-EPDM-POLYESTERE
Plastic material compatibility can change, we suggest to verify before using.

Storage conditions:

The product can store electrostatic charges. Guarantee electric continuity with a suitable floor web. Keep away from free flame, sparks and ignition's source. Avoid direct exposition to sunglasses.

Indications for room:

Fresh and suitable aired.

In case of transfer: not use compressed air for filling, discharge and handle. If volumetric pumps are used, they might have a not integral pressure limiting value. Reduce line speed during pumping to avoid an electrostatic charges formation.

Suitable material and covering:

Carbon steel, staining steel, polyester, teflon.

Professional use. MSDS available for further informations.